Jean M J Frchet

List of Publications by Citations

730 papers	85,697 citations	152 h-index	264 g-index
760 ext. papers	88,856 ext. citations	8.6 avg, IF	8.24 L-index

#	Paper	IF	Citations
730	Polymer-fullerene composite solar cells. *Angewandte Chemie - International Edition*, **2008**, 47, 58-77	16.4	3700
729	Preparation of polymers with controlled molecular architecture. A new convergent approach to dendritic macromolecules. *Journal of the American Chemical Society*, **1990**, 112, 7638-7647	16.4	2039
728	Designing dendrimers for biological applications. *Nature Biotechnology*, **2005**, 23, 1517-26	44.5	1739
727	Organic semiconducting oligomers for use in thin film transistors. *Chemical Reviews*, **2007**, 107, 1066-96	68.1	1675
726	Convergent dendrons and dendrimers: from synthesis to applications. *Chemical Reviews*, **2001**, 101, 3819-68	68.1	1435
725	Molecular design and ordering effects in π-functional materials for transistor and solar cell applications. *Journal of the American Chemical Society*, **2011**, 133, 20009-29	16.4	1251
724	Dendrimers and dendritic polymers in drug delivery. *Drug Discovery Today*, **2005**, 10, 35-43	8.8	1127
723	Efficiency and fidelity in a click-chemistry route to triazole dendrimers by the copper(i)-catalyzed ligation of azides and alkynes. *Angewandte Chemie - International Edition*, **2004**, 43, 3928-32	16.4	1017
722	Dependence of Regioregular Poly(3-hexylthiophene) Film Morphology and Field-Effect Mobility on Molecular Weight. *Macromolecules*, **2005**, 38, 3312-3319	5.5	922
721	Dendritic Encapsulation of Function: Applying Nature's Site Isolation Principle from Biomimetics to Materials Science. *Angewandte Chemie - International Edition*, **2001**, 40, 74-91	16.4	922
720	Synthetic control of structural order in N-alkylthieno[3,4-c]pyrrole-4,6-dione-based polymers for efficient solar cells. *Journal of the American Chemical Society*, **2010**, 132, 7595-7	16.4	851
719	Continuous rods of macroporous polymer as high-performance liquid chromatography separation media. *Analytical Chemistry*, **1992**, 64, 820-822	7.8	843
718	Controlling the Field-Effect Mobility of Regioregular Polythiophene by Changing the Molecular Weight. *Advanced Materials*, **2003**, 15, 1519-1522	24	841
717	Discovery of dendrimers and dendritic polymers: A brief historical perspective*. *Journal of Polymer Science Part A*, **2002**, 40, 2719-2728	2.5	691
716	Linear side chains in benzo[1,2-b:4,5-b']dithiophene-thieno[3,4-c]pyrrole-4,6-dione polymers direct self-assembly and solar cell performance. *Journal of the American Chemical Society*, **2013**, 135, 4656-9	16.4	625
715	Efficient charge generation by relaxed charge-transfer states at organic interfaces. *Nature Materials*, **2014**, 13, 63-8	27	584
714	Soluble polymer carriers for the treatment of cancer: the importance of molecular architecture. *Accounts of Chemical Research*, **2009**, 42, 1141-51	24.3	583

713	A new approach to mesophase stabilization through hydrogen bonding molecular interactions in binary mixtures. *Journal of the American Chemical Society*, **1989**, 111, 8533-8534	16.4	567
712	A single dose of doxorubicin-functionalized bow-tie dendrimer cures mice bearing C-26 colon carcinomas. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 16649-54	11.5	561
711	All-inkjet-printed flexible electronics fabrication on a polymer substrate by low-temperature high-resolution selective laser sintering of metal nanoparticles. *Nanotechnology*, **2007**, 18, 345202	3.4	560
710	Light-harvesting dendrimers. *Chemical Communications*, **2000**, 1701-1710	5.8	560
709	Dendronized linear polymers via "click chemistry". *Journal of the American Chemical Society*, **2004**, 126, 15020-1	16.4	545
708	Stimuli-responsive supramolecular assemblies of linear-dendritic copolymers. *Journal of the American Chemical Society*, **2004**, 126, 11936-43	16.4	497
707	pH-Responsive copolymer assemblies for controlled release of doxorubicin. *Bioconjugate Chemistry*, **2005**, 16, 361-8	6.3	483
706	Preparation of Hyperbranched and Star Polymers by a "Living", Self-Condensing Free Radical Polymerization. *Journal of the American Chemical Society*, **1995**, 117, 10763-10764	16.4	480
705	Self-Assembled Lanthanide-Cored Dendrimer Complexes: Enhancement of the Luminescence Properties of Lanthanide Ions through Site-Isolation and Antenna Effects. *Chemistry of Materials*, **1998**, 10, 286-296	9.6	441
704	Side-chain tunability of furan-containing low-band-gap polymers provides control of structural order in efficient solar cells. *Journal of the American Chemical Society*, **2012**, 134, 2180-5	16.4	437
703	Polyester dendritic systems for drug delivery applications: in vitro and in vivo evaluation. *Bioconjugate Chemistry*, **2002**, 13, 453-61	6.3	437
702	Water-soluble dendritic unimolecular micelles: their potential as drug delivery agents. *Journal of Controlled Release*, **2000**, 65, 121-31	11.7	430
701	Unimolecular micelles and globular amphiphiles: dendritic macromolecules as novel recyclable solubilization agents. *Journal of the Chemical Society Perkin Transactions 1*, **1993**, 1287-1297		424
700	Employing end-functional polythiophene to control the morphology of nanocrystal-polymer composites in hybrid solar cells. *Journal of the American Chemical Society*, **2004**, 126, 6550-1	16.4	423
699	Incorporation of furan into low band-gap polymers for efficient solar cells. *Journal of the American Chemical Society*, **2010**, 132, 15547-9	16.4	414
698	Monolithic, Molded, Porous Materials with High Flow Characteristics for Separations, Catalysis, or Solid-Phase Chemistry: Control of Porous Properties during Polymerization. *Chemistry of Materials*, **1996**, 8, 744-750	9.6	403
697	Increased light harvesting in dye-sensitized solar cells with energy relay dyes. *Nature Photonics*, **2009**, 3, 406-411	33.9	398
696	A new convergent approach to monodisperse dendritic macromolecules. *Journal of the Chemical Society Chemical Communications*, **1990**, 1010-1013		398

695	Small-molecule-directed nanoparticle assembly towards stimuli-responsive nanocomposites. *Nature Materials*, **2009**, 8, 979-85	27	392
694	The Importance of Fullerene Percolation in the Mixed Regions of Polymer–Fullerene Bulk Heterojunction Solar Cells. *Advanced Energy Materials*, **2013**, 3, 364-374	21.8	386
693	Molecular-weight-dependent mobilities in regioregular poly(3-hexyl-thiophene) diodes. *Applied Physics Letters*, **2005**, 86, 122110	3.4	384
692	Molded rigid polymer monoliths as separation media for capillary electrochromatography. *Analytical Chemistry*, **1997**, 69, 3646-9	7.8	380
691	Amphiphilic Diblock Copolymer Compatibilizers and Their Effect on the Morphology and Performance of Polythiophene:Fullerene Solar Cells. *Advanced Materials*, **2006**, 18, 206-210	24	380
690	The influence of poly(3-hexylthiophene) regioregularity on fullerene-composite solar cell performance. *Journal of the American Chemical Society*, **2008**, 130, 16324-9	16.4	378
689	Oligo- and polythiophene/ZnO hybrid nanowire solar cells. *Nano Letters*, **2010**, 10, 334-40	11.5	370
688	Molded rigid polymer monoliths as separation media for capillary electrochromatography. 1. Fine control of porous properties and surface chemistry. *Analytical Chemistry*, **1998**, 70, 2288-95	7.8	370
687	A novel strategy for encapsulation and release of proteins: hydrogels and microgels with acid-labile acetal cross-linkers. *Journal of the American Chemical Society*, **2002**, 124, 12398-9	16.4	354
686	Light Harvesting and Energy Transfer in Laser Dye-Labeled Poly(aryl ether) Dendrimers. *Journal of the American Chemical Society*, **2000**, 122, 1175-1185	16.4	354
685	A macromolecular delivery vehicle for protein-based vaccines: acid-degradable protein-loaded microgels. *Proceedings of the National Academy of Sciences of the United States of America*, **2003**, 100, 4995-5000	11.5	350
684	Extraction of a hydrophilic compound from water into liquid CO2 using dendritic surfactants. *Nature*, **1997**, 389, 368-371	50.4	349
683	Stabilization of a liquid-crystalline phase through noncovalent interaction with a polymer side chain. *Macromolecules*, **1989**, 22, 3818-3819	5.5	349
682	Acetal-derivatized dextran: an acid-responsive biodegradable material for therapeutic applications. *Journal of the American Chemical Society*, **2008**, 130, 10494-5	16.4	348
681	Efficient small molecule bulk heterojunction solar cells with high fill factors via pyrene-directed molecular self-assembly. *Advanced Materials*, **2011**, 23, 5359-63	24	337
680	Nanoporous polymers for hydrogen storage. *Small*, **2009**, 5, 1098-111	11	333
679	Synthetic micelle sensitive to IR light via a two-photon process. *Journal of the American Chemical Society*, **2005**, 127, 9952-3	16.4	332
678	Designing dendrimers for drug delivery. *Pharmaceutical Science & Technology Today*, **1999**, 2, 393-401		321

677	Reversible photomechanical switching of individual engineered molecules at a metallic surface. *Physical Review Letters*, **2007**, 99, 038301	7.4	320
676	Enzymatic microreactor-on-a-chip: protein mapping using trypsin immobilized on porous polymer monoliths molded in channels of microfluidic devices. *Analytical Chemistry*, **2002**, 74, 4081-8	7.8	311
675	Monolithic porous polymer for on-chip solid-phase extraction and preconcentration prepared by photoinitiated in situ polymerization within a microfluidic device. *Analytical Chemistry*, **2001**, 73, 5088-96	7.8	305
674	Bromination and lithiation: two important steps in the functionalization of polystyrene resins. *Journal of Organic Chemistry*, **1976**, 41, 3877-3882	4.2	305
673	Dendrimers and other dendritic macromolecules: From building blocks to functional assemblies in nanoscience and nanotechnology. *Journal of Polymer Science Part A*, **2003**, 41, 3713-3725	2.5	302
672	A biocompatible oxidation-triggered carrier polymer with potential in therapeutics. *Journal of the American Chemical Society*, **2011**, 133, 756-8	16.4	296
671	High Surface Area Nanoporous Polymers for Reversible Hydrogen Storage. *Chemistry of Materials*, **2006**, 18, 4430-4435	9.6	295
670	A modular approach toward functionalized three-dimensional macromolecules: from synthetic concepts to practical applications. *Journal of the American Chemical Society*, **2003**, 125, 715-28	16.4	295
669	Light Harvesting and Energy Transfer in Novel Convergently Constructed Dendrimers. *Angewandte Chemie - International Edition*, **1999**, 38, 1422-1427	16.4	294
668	Dendrimers and supramolecular chemistry. *Proceedings of the National Academy of Sciences of the United States of America*, **2002**, 99, 4782-7	11.5	292
667	Designing macromolecules for therapeutic applications: polyester dendrimer-poly(ethylene oxide) "bow-tie" hybrids with tunable molecular weight and architecture. *Journal of the American Chemical Society*, **2002**, 124, 14137-46	16.4	290
666	Kinetic Control of Pore Formation in Macroporous Polymers. Formation of "Molded" Porous Materials with High Flow Characteristics for Separations or Catalysis. *Chemistry of Materials*, **1995**, 7, 707-715	9.6	288
665	Double-Stage Convergent Approach for the Synthesis of Functionalized Dendritic Aliphatic Polyesters Based on 2,2-Bis(hydroxymethyl)propionic Acid. *Macromolecules*, **1998**, 31, 4061-4068	5.5	286
664	Porous polymer coatings: a versatile approach to superhydrophobic surfaces. *Advanced Functional Materials*, **2009**, 19, 1993-1998	15.6	282
663	Use of intermolecular hydrogen bonding for the induction of liquid crystallinity in the side chain of polysiloxanes. *Journal of the American Chemical Society*, **1992**, 114, 6630-6639	16.4	279
662	Polyester dendritic systems for drug delivery applications: design, synthesis, and characterization. *Bioconjugate Chemistry*, **2002**, 13, 443-52	6.3	273
661	Macroporous polymeric stationary-phase rod as continuous separation medium for reversed-phase chromatography. *Analytical Chemistry*, **1993**, 65, 2243-8	7.8	271
660	Fast and convenient divergent synthesis of aliphatic ester dendrimers by anhydride coupling. *Journal of the American Chemical Society*, **2001**, 123, 5908-17	16.4	266

659	Hypercrosslinked polyanilines with nanoporous structure and high surface area: potential adsorbents for hydrogen storage. *Journal of Materials Chemistry*, **2007**, 17, 4989		263
658	Platinum-functionalized random copolymers for use in solution-processible, efficient, near-white organic light-emitting diodes. *Journal of the American Chemical Society*, **2004**, 126, 15388-9	16.4	263
657	Rigid Macroporous Polymer Monoliths. *Advanced Materials*, **1999**, 11, 1169-1181	24	263
656	Direct nanoimprinting of metal nanoparticles for nanoscale electronics fabrication. *Nano Letters*, **2007**, 7, 1869-77	11.5	262
655	Acetals as pH-sensitive linkages for drug delivery. *Bioconjugate Chemistry*, **2004**, 15, 1254-63	6.3	257
654	One-pot multi-component asymmetric cascade reactions catalyzed by soluble star polymers with highly branched non-interpenetrating catalytic cores. *Journal of the American Chemical Society*, **2008**, 130, 6322-3	16.4	253
653	One-pot reaction cascades using star polymers with core-confined catalysts. *Angewandte Chemie - International Edition*, **2005**, 44, 6384-7	16.4	251
652	An A2 + B3 Approach to Hyperbranched Aliphatic Polyethers Containing Chain End Epoxy Substituents. *Macromolecules*, **1999**, 32, 6380-6382	5.5	247
651	Hydrogen-bonded liquid crystals. Novel mesogens incorporating nonmesogenic bipyridyl compounds through complexation between hydrogen-bond donor and acceptor moieties. *Chemistry of Materials*, **1993**, 5, 1094-1100	9.6	238
650	Biological evaluation of polyester dendrimer: poly(ethylene oxide) "bow-tie" hybrids with tunable molecular weight and architecture. *Molecular Pharmaceutics*, **2005**, 2, 129-38	5.6	237
649	Acetalated dextran is a chemically and biologically tunable material for particulate immunotherapy. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 5497-502	11.5	235
648	Photocrosslinkable Polythiophenes for Efficient, Thermally Stable, Organic Photovoltaics. *Advanced Functional Materials*, **2009**, 19, 2273-2281	15.6	233
647	A new approach towards acid sensitive copolymer micelles for drug delivery. *Chemical Communications*, **2003**, 1640-1	5.8	230
646	Photografting and the Control of Surface Chemistry in Three-Dimensional Porous Polymer Monoliths. *Macromolecules*, **2003**, 36, 1677-1684	5.5	229
645	Dendrimers and Hyperbranched Polymers: Two Families of Three-Dimensional Macromolecules with Similar but Clearly Distinct Properties. *Journal of Macromolecular Science - Pure and Applied Chemistry*, **1996**, 33, 1399-1425	2.2	228
644	Dendrimers at surfaces and interfaces: chemistry and applications. *Chemical Communications*, **2001**, 1229-1239	5.8	223
643	Biodegradable dendritic positron-emitting nanoprobes for the noninvasive imaging of angiogenesis. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 685-90	11.5	220
642	Design of the monolithic polymers used in capillary electrochromatography columns. *Journal of Chromatography A*, **2000**, 887, 3-29	4.5	220

641	Molded Rigid Monolithic Porous Polymers: An Inexpensive, Efficient, and Versatile Alternative to Beads for the Design of Materials for Numerous Applications. *Industrial & Engineering Chemistry Research*, **1999**, 38, 34-48	3.9	220
640	Polythiophene containing thermally removable solubilizing groups enhances the interface and the performance of polymer-titania hybrid solar cells. *Journal of the American Chemical Society*, **2004**, 126, 9486-7	16.4	219
639	Importance of active-site reactivity and reaction conditions in the preparation of hyperbranched polymers by self-condensing vinyl polymerization: Highly branched vs. linear poly[4-(chloromethyl)styrene] by metal-catalyzed living radical polymerization. *Journal of Polymer Science Part A*, **1998**, 36, 955-970	2.5	214
638	Towards stationary phases for chromatography on a microchip: molded porous polymer monoliths prepared in capillaries by photoinitiated in situ polymerization as separation media for electrochromatography. *Electrophoresis*, **2000**, 21, 120-7	3.6	212
637	Solvatochromism as a probe of the microenvironment in dendritic polyethers: transition from an extended to a globular structure. *Journal of the American Chemical Society*, **1993**, 115, 4375-4376	16.4	210
636	Chemical Amplification in High-Resolution Imaging Systems. *Accounts of Chemical Research*, **1994**, 27, 151-158	24.3	210
635	Singlet oxygen generation via two-photon excited FRET. *Journal of the American Chemical Society*, **2004**, 126, 5380-1	16.4	208
634	Enhancing the thermal stability of polythiophene:fullerene solar cells by decreasing effective polymer regioregularity. *Journal of the American Chemical Society*, **2006**, 128, 13988-9	16.4	206
633	Dendrimer-Containing Light-Emitting Diodes:´Toward Site-Isolation of Chromophores. *Journal of the American Chemical Society*, **2000**, 122, 12385-12386	16.4	206
632	Novel Polyether Copolymers Consisting of Linear and Dendritic Blocks. *Angewandte Chemie International Edition in English*, **1992**, 31, 1200-1202		206
631	Development and application of polymeric monolithic stationary phases for capillary electrochromatography. *Journal of Chromatography A*, **2004**, 1044, 3-22	4.5	203
630	Temperature, a Simple and Efficient Tool for the Control of Pore Size Distribution in Macroporous Polymers. *Macromolecules*, **1995**, 28, 7580-7582	5.5	203
629	Molecular Ball Bearings: The Unusual Melt Viscosity Behavior of Dendritic Macromolecules. *Journal of the American Chemical Society*, **1995**, 117, 4409-4410	16.4	200
628	Recombination in Polymer:Fullerene Solar Cells with Open-Circuit Voltages Approaching and Exceeding 1.0 V. *Advanced Energy Materials*, **2013**, 3, 220-230	21.8	199
627	Synthesis and Catalytic Activity of Unimolecular Dendritic Reverse Micelles with Internal Functional Groups. *Journal of the American Chemical Society*, **1999**, 121, 9471-9472	16.4	194
626	Molded rigid polymer monoliths as separation media for capillary electrochromatography. 2. Effect of chromatographic conditions on the separation. *Analytical Chemistry*, **1998**, 70, 2296-302	7.8	192
625	Influence of shape on the reactivity and properties of dendritic, hyperbranched and linear aromatic polyesters. *Polymer*, **1994**, 35, 4489-4495	3.9	191
624	Photogeneration of organic bases from o-nitrobenzyl-derived carbamates. *Journal of the American Chemical Society*, **1991**, 113, 4303-4313	16.4	191

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622	Electroactive Surfactant Designed to Mediate Electron Transfer Between CdSe Nanocrystals and Organic Semiconductors. *Advanced Materials*, **2003**, 15, 58-61	24	188
621	A Liquid-Crystalline Polymer Network Built by Molecular Self-Assembly through Intermolecular Hydrogen Bonding. *Angewandte Chemie International Edition in English*, **1994**, 33, 1644-1645		188
620	Preparation of Size-Selective Nanoporous Polymer Networks of Aromatic Rings: Potential Adsorbents for Hydrogen Storage. *Chemistry of Materials*, **2008**, 20, 7069-7076	9.6	186
619	Steric control of the donor/acceptor interface: implications in organic photovoltaic charge generation. *Journal of the American Chemical Society*, **2011**, 133, 12106-14	16.4	184
618	Simultaneous light emission from a mixture of dendrimer encapsulated chromophores: a model for single-layer multichromophoric organic light-emitting diodes. *Journal of the American Chemical Society*, **2003**, 125, 13165-72	16.4	184
617	Porous polymer monolithic column with surface-bound gold nanoparticles for the capture and separation of cysteine-containing peptides. *Analytical Chemistry*, **2010**, 82, 3352-8	7.8	183
616	Control of Polymer-Packing Orientation in Thin Films through Synthetic Tailoring of Backbone Coplanarity. *Chemistry of Materials*, **2013**, 25, 4088-4096	9.6	182
615	Controlling Solution-Phase Polymer Aggregation with Molecular Weight and Solvent Additives to Optimize Polymer-Fullerene Bulk Heterojunction Solar Cells. *Advanced Energy Materials*, **2014**, 4, 1301733	21.8	182
614	Tetrahedron report number 103. *Tetrahedron*, **1981**, 37, 663-683	2.4	182
613	Dependence of pharmacokinetics and biodistribution on polymer architecture: effect of cyclic versus linear polymers. *Journal of the American Chemical Society*, **2009**, 131, 3842-3	16.4	181
612	Organic thin film transistors from a soluble oligothiophene derivative containing thermally removable solubilizing groups. *Journal of the American Chemical Society*, **2004**, 126, 1596-7	16.4	181
611	Modified poly(glycidyl methacrylate-co-ethylene dimethacrylate) continuous rod columns for preparative-scale ion-exchange chromatography of proteins. *Journal of Chromatography A*, **1995**, 702, 89-95	4.5	181
610	Hydrogen-bonded liquid crystals built from hydrogen-bonding donors and acceptors. Infrared study on the stability of the hydrogen bond between carboxylic acid and pyridyl moieties. *Liquid Crystals*, **1993**, 14, 1311-1317	2.3	180
609	Dual-function microanalytical device by in situ photolithographic grafting of porous polymer monolith: integrating solid-phase extraction and enzymatic digestion for peptide mass mapping. *Analytical Chemistry*, **2003**, 75, 5328-35	7.8	179
608	Surface Functionalization of Thermoplastic Polymers for the Fabrication of Microfluidic Devices by Photoinitiated Grafting. *Advanced Functional Materials*, **2003**, 13, 264-270	15.6	178
607	In vivo targeting of dendritic cells for activation of cellular immunity using vaccine carriers based on pH-responsive microparticles. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 18264-8	11.5	176
606	Cascade energy transfer in a conformationally mobile multichromophoric dendrimer. *Chemical Communications*, **2002**, 2605-7	5.8	175

605	Synthesis, Characterization, and Field-Effect Transistor Performance of Carboxylate-Functionalized Polythiophenes with Increased Air Stability. *Chemistry of Materials*, **2005**, 17, 4892-4899	9.6	174
604	Efficiency and Fidelity in a Click-Chemistry Route to Triazole Dendrimers by the Copper(I)-Catalyzed Ligation of Azides and Alkynes. *Angewandte Chemie*, **2004**, 116, 4018-4022	3.6	174
603	Design of dendritic macromolecules containing folate or methotrexate residues. *Bioconjugate Chemistry*, **1999**, 10, 1115-21	6.3	174
602	Enhanced solid-state order and field-effect hole mobility through control of nanoscale polymer aggregation. *Journal of the American Chemical Society*, **2013**, 135, 19229-36	16.4	170
601	Flow control valves for analytical microfluidic chips without mechanical parts based on thermally responsive monolithic polymers. *Analytical Chemistry*, **2003**, 75, 1958-61	7.8	169
600	Molecular self-assembly of liquid crystalline side-chain polymers through intermolecular hydrogen bonding. Polymeric complexes built from a polyacrylate and stilbazoles. *Macromolecules*, **1992**, 25, 6836-6841	5.5	169
599	A Tandem Approach to Graft and Dendritic Graft Copolymers Based on "Living" Free Radical Polymerizations. *Angewandte Chemie International Edition in English*, **1997**, 36, 270-272		168
598	Photosensitization of Singlet Oxygen via Two-Photon-Excited Fluorescence Resonance Energy Transfer in a Water-Soluble Dendrimer. *Chemistry of Materials*, **2005**, 17, 2267-2275	9.6	168
597	Novel Two-Photon Absorbing Dendritic Structures. *Chemistry of Materials*, **2000**, 12, 2838-2841	9.6	167
596	Poly(p-tert-butoxycarbonyloxystyrene): a convenient precursor to p-hydroxystyrene resins. *Polymer* , **1983**, 24, 995-1000	3.9	167
595	Effect of Addition of a Diblock Copolymer on Blend Morphology and Performance of Poly(3-hexylthiophene):Perylene Diimide Solar Cells. *Chemistry of Materials*, **2009**, 21, 1775-1777	9.6	166
594	PEGylated dendrimers with core functionality for biological applications. *Bioconjugate Chemistry*, **2008**, 19, 461-9	6.3	166
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592	Preparation of monolithic polymers with controlled porous properties for microfluidic chip applications using photoinitiated free-radical polymerization. *Journal of Polymer Science Part A*, **2002**, 40, 755-769	2.5	165
591	High-throughput synthesis of nanoscale materials: structural optimization of functionalized one-step star polymers. *Journal of the American Chemical Society*, **2001**, 123, 6461-2	16.4	165
590	Effects of Dendrimer Generation on Site Isolation of Core Moieties: Electrochemical and Fluorescence Quenching Studies with Metalloporphyrin Core Dendrimers. *Chemistry of Materials*, **1998**, 10, 30-38	9.6	164
589	Reversed-phase chromatography of small molecules and peptides on a continuous rod of macroporous poly(styrene-co-divinylbenzene). *Journal of Chromatography A*, **1994**, 669, 230-5	4.5	164
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587	Chiral monolithic columns for enantioselective capillary electrochromatography prepared by copolymerization of a monomer with quinidine functionality. 1. Optimization of polymerization conditions, porous properties, and chemistry of the stationary phase. *Analytical Chemistry*, **2000**, 72, 4614-22	7.8	161
586	All-polymer photovoltaic devices of poly(3-(4-n-octyl)-phenylthiophene) from Grignard Metathesis (GRIM) polymerization. *Journal of the American Chemical Society*, **2009**, 131, 14160-1	16.4	160
585	High Efficiency Organic Photovoltaics Incorporating a New Family of Soluble Fullerene Derivatives. *Chemistry of Materials*, **2007**, 19, 2927-2929	9.6	159
584	Solution and solid-state properties of hybrid linear-dendritic block copolymers. *Macromolecules*, **1993**, 26, 6536-6546	5.5	159
583	A facile approach to superhydrophilic-superhydrophobic patterns in porous polymer films. *Advanced Materials*, **2011**, 23, 3030-4	24	158
582	Nanoscale Patterning and Electronics on Flexible Substrate by Direct Nanoimprinting of Metallic Nanoparticles. *Advanced Materials*, **2008**, 20, 489-496	24	156
581	Synthesis and properties of novel linear-dendritic block copolymers. Reactivity of dendritic macromolecules toward linear polymers. *Macromolecules*, **1993**, 26, 5621-5627	5.5	154
580	Self-Assembly of Gold Nanoparticles at the Surface of Amine- and Thiol-Functionalized Boron Nitride Nanotubes. *Journal of Physical Chemistry C*, **2007**, 111, 12992-12999	3.8	153
579	Air stable high resolution organic transistors by selective laser sintering of ink-jet printed metal nanoparticles. *Applied Physics Letters*, **2007**, 90, 141103	3.4	153
578	Design of reactive porous polymer supports for high throughput bioreactors: poly(2-vinyl-4,4-dimethylazlactone-co-acrylamide- co-ethylene dimethacrylate) monoliths. *Biotechnology and Bioengineering*, **1999**, 62, 30-5	4.9	152
577	Fully acid-degradable biocompatible polyacetal microparticles for drug delivery. *Bioconjugate Chemistry*, **2008**, 19, 911-9	6.3	151
576	Encapsulation of functional moieties within branched star polymers: effect of chain length and solvent on site isolation. *Journal of the American Chemical Society*, **2001**, 123, 18-25	16.4	150
575	Synthesis and characterization of hyperbranched polyurethanes prepared from blocked isocyanate monomers by step-growth polymerization. *Macromolecules*, **1993**, 26, 4809-4813	5.5	150
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568	Hydrogen bonding and the self-assembly of supramolecular liquid-crystalline materials. *Macromolecular Symposia*, **1995**, 98, 311-326	0.8	143
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