Rachel A Segalman

List of Publications by Year in Descending Order

183 papers	11,994 citations	59 h-index	105 g-index
198 ext. papers	13,290 ext. citations	8.6 avg, IF	6.69 L-index

#	Paper	IF	Citations
183	Role of Electron-Deficient Imidazoles in Ion Transport and Conductivity in Solid-State Polymer Electrolytes. *Macromolecules*, **2022**, 55, 971-977	5.5	1
182	Room-level ventilation in schools and universities.. *Atmospheric Environment: X*, **2022**, 13, 100152	2.8	3
181	Design of Polymeric Zwitterionic Solid Electrolytes with Superionic Lithium Transport.. *ACS Central Science*, **2022**, 8, 169-175	16.8	8
180	Confinement Promotes Hydrogen Bond Network Formation and Grotthuss Proton Hopping in Ion-Conducting Block Copolymers. *Macromolecules*, **2022**, 55, 615-622	5.5	2
179	Interfacial nanostructure and friction of a polymeric ionic liquid-ionic liquid mixture as a function of potential at Au(111) electrode interface. *Journal of Colloid and Interface Science*, **2022**, 606, 1170-1178	9.3	1
178	Enhancing the Ionic Conductivity of Poly(3,4-propylenedioxythiophenes) with Oligoether Side Chains for Use as Conductive Cathode Binders in Lithium-Ion Batteries. *Chemistry of Materials*, **2022**, 34, 2672-2686	9.6	6
177	Ionic Tunability of Conjugated Polyelectrolyte Solutions. *Macromolecules*, **2022**, 55, 3437-3448	5.5	2
176	New Approaches to EUV Photoresists: Studies of Polyacetals and Polypeptoids to Expand the Photopolymer Toolbox. *Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]*, **2021**, 34, 71-74	0.7	3
175	Postdeposition Processing Influences the Relative Contributions of Electronic and Ionic Seebeck Effects in the Thermoelectric Response of Conducting Polymers. *Journal of Physical Chemistry C*, **2021**, 125, 12289-12296	3.8	2
174	Quantifying Polypeptoid Conformational Landscapes through Integrated Experiment and Simulation. *Macromolecules*, **2021**, 54, 5011-5021	5.5	2
173	Amphiphilic Nitroxide-Bearing Siloxane-Based Block Copolymer Coatings for Enhanced Marine Fouling Release. *ACS Applied Materials & Interfaces*, **2021**, 13, 28790-28801	9.5	2
172	Tuning the Double Gyroid Phase Window in Block Copolymers via Polymer Chain Conformation Near the Interface. *Macromolecules*, **2021**, 54, 5388-5396	5.5	3
171	Database Creation, Visualization, and Statistical Learning for Polymer Li+-Electrolyte Design. *Chemistry of Materials*, **2021**, 33, 4863-4876	9.6	2
170	Non-intuitive Trends in Flory–Huggins Interaction Parameters in Polyether-Based Polymers. *Macromolecules*, **2021**, 54, 6670-6677	5.5	1
169	Glass Transition Temperature and Ion Binding Determine Conductivity and Lithium-Ion Transport in Polymer Electrolytes.. *ACS Macro Letters*, **2021**, 10, 104-109	6.6	13
168	The role of anions in light-driven conductivity in diarylethene-containing polymeric ionic liquids. *Polymer Chemistry*, **2021**, 12, 719-724	4.9	1
167	Versatile Synthetic Platform for Polymer Membrane Libraries Using Functional Networks. *Macromolecules*, **2021**, 54, 866-873	5.5	2

166	Light-Switchable and Self-Healable Polymer Electrolytes Based on Dynamic Diarylethene and Metal-Ion Coordination. *Journal of the American Chemical Society*, **2021**, 143, 1562-1569	16.4	11
165	Redox-Active Polymeric Ionic Liquids with Pendant N-Substituted Phenothiazine. *ACS Applied Materials & Interfaces*, **2021**, 13, 5319-5326	9.5	1
164	Electronic, Ionic, and Mixed Conduction in Polymeric Systems. *Annual Review of Materials Research*, **2021**, 51, 1-20	12.8	6
163	Aqueous Formulation of Concentrated Semiconductive Fluid Using Polyelectrolyte Coacervation.. *ACS Macro Letters*, **2021**, 10, 1008-1014	6.6	4
162	Where Biology and Traditional Polymers Meet: The Potential of Associating Sequence-Defined Polymers for Materials Science. *Jacs Au*, **2021**, 1, 1556-1571		7
161	Li+ and Oxidant Addition To Control Ionic and Electronic Conduction in Ionic Liquid-Functionalized Conjugated Polymers. *Chemistry of Materials*, **2021**, 33, 6464-6474	9.6	4
160	End-to-End Distance Probability Distributions of Dilute Poly(ethylene oxide) in Aqueous Solution. *Journal of the American Chemical Society*, **2020**, 142, 19631-19641	16.4	7
159	On the growth, structure and dynamics of P3EHT crystals. *Journal of Materials Chemistry C*, **2020**, 8, 8155-8170	7.1	3
158	Insensitivity of Sterically Defined Helical Chain Conformations to Solvent Quality in Dilute Solution. *ACS Macro Letters*, **2020**, 9, 849-854	6.6	2
157	Role of Side-Chain Architecture in Poly(ethylene oxide)-Based Copolymers. *Macromolecules*, **2020**, 53, 4960-4967	5.5	7
156	The Role of Backbone Polarity on Aggregation and Conduction of Ions in Polymer Electrolytes. *Journal of the American Chemical Society*, **2020**, 142, 7055-7065	16.4	53
155	In-situ resonant band engineering of solution-processed semiconductors generates high performance n-type thermoelectric nano-inks. *Nature Communications*, **2020**, 11, 2069	17.4	12
154	Monomer Sequence Effects on Interfacial Width and Mixing in Self-Assembled Diblock Copolymers. *Macromolecules*, **2020**, 53, 3262-3272	5.5	11
153	Light-Controllable Ionic Conductivity in a Polymeric Ionic Liquid. *Angewandte Chemie*, **2020**, 132, 5161-5166	3.6	1
152	Light-Controllable Ionic Conductivity in a Polymeric Ionic Liquid. *Angewandte Chemie - International Edition*, **2020**, 59, 5123-5128	16.4	27
151	Influence of pore morphology on the diffusion of water in triblock copolymer membranes. *Journal of Chemical Physics*, **2020**, 152, 014904	3.9	6
150	Dihexyl-Substituted Poly(3,4-Propylenedioxythiophene) as a Dual Ionic and Electronic Conductive Cathode Binder for Lithium-Ion Batteries. *Chemistry of Materials*, **2020**, 32, 9176-9189	9.6	16
149	The Role of Polymer–Ion Interaction Strength on the Viscoelasticity and Conductivity of Solvent-Free Polymer Electrolytes. *Macromolecules*, **2020**, 53, 10574-10581	5.5	8

148	Effects of Counter-Ion Size on Delocalization of Carriers and Stability of Doped Semiconducting Polymers. *Advanced Electronic Materials*, **2020**, 6, 2000595	6.4	11
147	Directly Probing Polymer Thin Film Chemistry and Counterion Influence on Water Sorption. *ACS Applied Polymer Materials*, **2020**, 2, 4752-4761	4.3	5
146	Sequence Effects on Block Copolymer Self-Assembly through Tuning Chain Conformation and Segregation Strength Utilizing Sequence-Defined Polypeptoids. *Macromolecules*, **2019**, 52, 1277-1286	5.5	23
145	The Role of Hydrogen Bonding in Peptoid-Based Marine Antifouling Coatings. *Macromolecules*, **2019**, 52, 1287-1295	5.5	30
144	Rapid and Selective Deposition of Patterned Thin Films on Heterogeneous Substrates via Spin Coating. *ACS Applied Materials & Interfaces*, **2019**, 11, 21177-21183	9.5	16
143	Effects of Helical Chain Shape on Lamellae-Forming Block Copolymer Self-Assembly. *Macromolecules*, **2019**, 52, 2560-2568	5.5	14
142	Nonaggregating Doped Polymers Based on Poly(3,4-Propylenedioxythiophene). *Macromolecules*, **2019**, 52, 2203-2213	5.5	19
141	Absence of Electrostatic Rigidity in Conjugated Polyelectrolytes with Pendant Charges. *ACS Macro Letters*, **2019**, 8, 1147-1152	6.6	9
140	Controlling the Doping Mechanism in Poly(3-hexylthiophene) Thin-Film Transistors with Polymeric Ionic Liquid Dielectrics. *Chemistry of Materials*, **2019**, 31, 8820-8829	9.6	20
139	Multivalent ion conduction in solid polymer systems. *Molecular Systems Design and Engineering*, **2019**, 4, 263-279	4.6	29
138	Complexation of a Conjugated Polyelectrolyte and Impact on Optoelectronic Properties. *ACS Macro Letters*, **2019**, 8, 88-94	6.6	19
137	Ion Transport in Dynamic Polymer Networks Based on Metal□igand Coordination: Effect of Cross-Linker Concentration. *Macromolecules*, **2018**, 51, 2017-2026	5.5	29
136	Impact of Helical Chain Shape in Sequence-Defined Polymers on Polypeptoid Block Copolymer Self-Assembly. *Macromolecules*, **2018**, 51, 2089-2098	5.5	24
135	Role of Disorder Induced by Doping on the Thermoelectric Properties of Semiconducting Polymers. *Chemistry of Materials*, **2018**, 30, 2965-2972	9.6	44
134	Mixed Conductive Soft Solids by Electrostatically Driven Network Formation of a Conjugated Polyelectrolyte. *Chemistry of Materials*, **2018**, 30, 1417-1426	9.6	26
133	Temperature-Dependence of Persistence Length Affects Phenomenological Descriptions of Aligning Interactions in Nematic Semiconducting Polymers. *Chemistry of Materials*, **2018**, 30, 748-761	9.6	13
132	Thermoreversible Hyaluronic Acid-PNIPAAm Hydrogel Systems for 3D Stem Cell Culture. *Advanced Healthcare Materials*, **2018**, 7, e1800225	10.1	55
131	Photocrosslinking polymeric ionic liquids via anthracene cycloaddition for organic electronics. *Journal of Materials Chemistry C*, **2018**, 6, 8762-8769	7.1	10

130	Tailoring the Seebeck Coefficient of PEDOT:PSS by Controlling Ion Stoichiometry in Ionic Liquid Additives. *Chemistry of Materials*, **2018**, 30, 4816-4822	9.6	32
129	Mussel-Inspired Strategy for Stabilizing Ultrathin Polymer Films and Its Application to Spin-On Doping of Semiconductors. *Chemistry of Materials*, **2018**, 30, 5285-5292	9.6	10
128	Decoupling Bulk Mechanics and Mono- and Multivalent Ion Transport in Polymers Based on Metal□ligand Coordination. *Chemistry of Materials*, **2018**, 30, 5759-5769	9.6	34
127	Unraveling the Effect of Conformational and Electronic Disorder in the Charge Transport Processes of Semiconducting Polymers. *Advanced Functional Materials*, **2018**, 28, 1804142	15.6	25
126	Branched Side Chains Govern Counterion Position and Doping Mechanism in Conjugated Polythiophenes. *ACS Macro Letters*, **2018**, 7, 1492-1497	6.6	25
125	Effects of Side Chain Branch Point on Self Assembly, Structure, and Electronic Properties of High Mobility Semiconducting Polymers. *Macromolecules*, **2018**, 51, 8597-8604	5.5	26
124	X-Ray Scattering Reveals Ion-Induced Microstructural Changes During Electrochemical Gating of Poly(3-Hexylthiophene). *Advanced Functional Materials*, **2018**, 28, 1803687	15.6	46
123	Bottom-up design of de novo thermoelectric hybrid materials using chalcogenide resurfacing. *Journal of Materials Chemistry A*, **2017**, 5, 3346-3357	13	37
122	Molecular Considerations for Mesophase Interaction and Alignment of Lyotropic Liquid Crystalline Semiconducting Polymers. *ACS Macro Letters*, **2017**, 6, 619-624	6.6	21
121	Isothermal Crystallization Kinetics and Time-Temperature-Transformation of the Conjugated Polymer: Poly(3-(2Rethyl)hexylthiophene). *Chemistry of Materials*, **2017**, 29, 5654-5662	9.6	33
120	Role of Backbone Chemistry and Monomer Sequence in Amphiphilic Oligopeptide- and Oligopeptoid-Functionalized PDMS- and PEO-Based Block Copolymers for Marine Antifouling and Fouling Release Coatings. *Macromolecules*, **2017**, 50, 2656-2667	5.5	44
119	Tuning the optoelectronic properties of P3EHT block copolymers by surface modification. *International Journal of Nanotechnology*, **2017**, 14, 540	1.5	3
118	Thermal Control of Confined Crystallization within P3EHT Block Copolymer Microdomains. *Macromolecules*, **2017**, 50, 8097-8105	5.5	16
117	Oligopeptide-modified hydrophobic and hydrophilic polymers as antifouling coatings. *Green Materials*, **2017**, 5, 31-43	3.2	6
116	Confined Crystallization within Cylindrical P3EHT Block Copolymer Microdomains. *Macromolecules*, **2017**, 50, 6128-6136	5.5	13
115	Decoupling Mechanical and Conductive Dynamics of Polymeric Ionic Liquids via a Trivalent Anion Additive. *Macromolecules*, **2017**, 50, 8979-8987	5.5	15
114	Large-scale integration of flexible materials into rolled and corrugated thermoelectric modules. *Journal of Applied Polymer Science*, **2017**, 134,	2.9	32
113	Role of Tethered Ion Placement on Polymerized Ionic Liquid Structure and Conductivity: Pendant versus Backbone Charge Placement. *ACS Macro Letters*, **2016**, 5, 925-930	6.6	53

112	Organic thermoelectric materials for energy harvesting and temperature control. *Nature Reviews Materials*, **2016**, 1,	73.3	685
111	Anisotropic Thermal Transport in Thermoelectric Composites of Conjugated Polyelectrolytes/Single-Walled Carbon Nanotubes. *Macromolecules*, **2016**, 49, 4957-4963	5.5	26
110	Harvesting Waste Heat in Unipolar Ion Conducting Polymers. *ACS Macro Letters*, **2016**, 5, 94-98	6.6	49
109	Electrochemical Effects in Thermoelectric Polymers. *ACS Macro Letters*, **2016**, 5, 455-459	6.6	50
108	High Mobility Organic Field-Effect Transistors from Majority Insulator Blends. *Chemistry of Materials*, **2016**, 28, 1256-1260	9.6	66
107	Structure□Conductivity Relationships of Block Copolymer Membranes Based on Hydrated Protic Polymerized Ionic Liquids: Effect of Domain Spacing. *Macromolecules*, **2016**, 49, 2216-2223	5.5	34
106	Tethered tertiary amines as solid-state n-type dopants for solution-processable organic semiconductors. *Chemical Science*, **2016**, 7, 1914-1919	9.4	71
105	Anhydrous Proton Transport in Polymerized Ionic Liquid Block Copolymers: Roles of Block Length, Ionic Content, and Confinement. *Macromolecules*, **2016**, 49, 395-404	5.5	72
104	Confined crystallization in lamellae forming poly(3-(2?-ethyl)hexylthiophene) (P3EHT) block copolymers. *Journal of Polymer Science, Part B: Polymer Physics*, **2016**, 54, 205-215	2.6	17
103	Formation and Structure of Lyotropic Liquid Crystalline Mesophases in Donor□Acceptor Semiconducting Polymers. *Macromolecules*, **2016**, 49, 7220-7229	5.5	28
102	Varying the ionic functionalities of conjugated polyelectrolytes leads to both p- and n-type carbon nanotube composites for flexible thermoelectrics. *Energy and Environmental Science*, **2015**, 8, 2341-2346	35.4	89
101	Role of Side-Chain Branching on Thin-Film Structure and Electronic Properties of Polythiophenes. *Advanced Functional Materials*, **2015**, 25, 2616-2624	15.6	59
100	Electrical properties of doped conjugated polyelectrolytes with modulated density of the ionic functionalities. *Chemical Communications*, **2015**, 51, 17607-10	5.8	17
99	Improving the Gas Barrier Properties of Nafion via Thermal Annealing: Evidence for Diffusion through Hydrophilic Channels and Matrix. *Macromolecules*, **2015**, 48, 3303-3309	5.5	14
98	Surface Structure and Hydration of Sequence-Specific Amphiphilic Polypeptoids for Antifouling/Fouling Release Applications. *Langmuir*, **2015**, 31, 9306-11	4	50
97	Large-Area, Nanometer-Scale Discrete Doping of Semiconductors via Block Copolymer Self-Assembly. *Advanced Materials Interfaces*, **2015**, 2, 1500421	4.6	16
96	Thermal Conductivity and Elastic Constants of PEDOT:PSS with High Electrical Conductivity. *Macromolecules*, **2015**, 48, 585-591	5.5	209
95	Mechanism of Crystallization and Implications for Charge Transport in Poly(3-ethylhexylthiophene) Thin Films. *Advanced Functional Materials*, **2014**, 24, 4515-4521	15.6	58

94	Robust production of purified H2 in a stable, self-regulating, and continuously operating solar fuel generator. *Energy and Environmental Science*, **2014**, 7, 297-301	35.4	74
93	Material requirements for membrane separators in a water-splitting photoelectrochemical cell. *Energy and Environmental Science*, **2014**, 7, 1468-1476	35.4	78
92	Sequence of Hydrophobic and Hydrophilic Residues in Amphiphilic Polymer Coatings Affects Surface Structure and Marine Antifouling/Fouling Release Properties.. *ACS Macro Letters*, **2014**, 3, 364-368	6.6	73
91	Formation of a Rigid Amorphous Fraction in Poly(3-(2Rethyl)hexylthiophene).. *ACS Macro Letters*, **2014**, 3, 684-688	6.6	29
90	Power factor enhancement in solution-processed organic n-type thermoelectrics through molecular design. *Advanced Materials*, **2014**, 26, 3473-7	24	169
89	Controlling the Thermoelectric Properties of Thiophene-Derived Single-Molecule Junctions. *Chemistry of Materials*, **2014**, 26, 7229-7235	9.6	48
88	Exploring the potential of fulvalene dimetals as platforms for molecular solar thermal energy storage: computations, syntheses, structures, kinetics, and catalysis. *Chemistry - A European Journal*, **2014**, 20, 15587-604	4.8	23
87	Melting Behavior of Poly(3-(2?-ethyl)hexylthiophene). *Macromolecules*, **2014**, 47, 8305-8310	5.5	15
86	Control of thermal and optoelectronic properties in conjugated poly (3-alkylthiophenes). *MRS Communications*, **2014**, 4, 45-50	2.7	5
85	Polypeptoids: a model system to study the effect of monomer sequence on polymer properties and self-assembly. *Soft Matter*, **2013**, 9, 8400	3.6	100
84	Ionic Conduction in Nanostructured Membranes Based on Polymerized Protic Ionic Liquids. *Macromolecules*, **2013**, 46, 1543-1548	5.5	81
83	Spin-On Organic Polymer Dopants for Silicon. *Journal of Physical Chemistry Letters*, **2013**, 4, 3741-3746	6.4	31
82	Self-Assembly and Transport Limitations in Confined Nafion Films. *Macromolecules*, **2013**, 46, 867-873	5.5	158
81	Thermoelectric power factor optimization in PEDOT:PSS tellurium nanowire hybrid composites. *Physical Chemistry Chemical Physics*, **2013**, 15, 4024-32	3.6	167
80	Persistence length of polyelectrolytes with precisely located charges. *Soft Matter*, **2013**, 9, 90-98	3.6	41
79	Polymer Chain Shape of Poly(3-alkylthiophenes) in Solution Using Small-Angle Neutron Scattering. *Macromolecules*, **2013**, 46, 1899-1907	5.5	163
78	Ultralow thermal conductivity in polycrystalline CdSe thin films with controlled grain size. *Nano Letters*, **2013**, 13, 2122-7	11.5	61
77	Integrated microfluidic test-bed for energy conversion devices. *Physical Chemistry Chemical Physics*, **2013**, 15, 7050-4	3.6	14

76	Effect of interfacial properties on polymer-nanocrystal thermoelectric transport. *Advanced Materials*, **2013**, 25, 1629-33	24	195
75	Dynamics of Magnetic Alignment in Rod–Coil Block Copolymers. *Macromolecules*, **2013**, 46, 4462-4471	5.5	31
74	Thermal Conductivity of High-Modulus Polymer Fibers. *Macromolecules*, **2013**, 46, 4937-4943	5.5	180
73	Deciphering the three-dimensional morphology of free-standing block copolymer thin films by transmission electron microscopy. *Micron*, **2013**, 44, 442-50	2.3	5
72	Spatial organization of cell-adhesive ligands for advanced cell culture. *Biotechnology Journal*, **2013**, 8, 1411-23	5.6	34
71	Structure determination of Pt-coated Au dumbbells via fluctuation X-ray scattering. *Journal of Synchrotron Radiation*, **2012**, 19, 695-700	2.4	21
70	Controlling Nafion Structure and Properties via Wetting Interactions. *Macromolecules*, **2012**, 45, 4681-4688	5.5	102
69	Tunable Surface Properties from Sequence-Specific Polypeptoid–Polystyrene Block Copolymer Thin Films. *Macromolecules*, **2012**, 45, 7072-7082	5.5	39
68	Effect of Confinement on Proton Transport Mechanisms in Block Copolymer/Ionic Liquid Membranes. *Macromolecules*, **2012**, 45, 3112-3120	5.5	66
67	Conductivity Scaling Relationships for Nanostructured Block Copolymer/Ionic Liquid Membranes. *ACS Macro Letters*, **2012**, 1, 937-943	6.6	38
66	Impact of Hydrophobic Sequence Patterning on the Coil-to-Globule Transition of Protein-like Polymers. *Macromolecules*, **2012**, 45, 5229-5236	5.5	67
65	Morphology and thermodynamic properties of a copolymer with an electronically conducting block: poly(3-ethylhexylthiophene)-block-poly(ethylene oxide). *Nano Letters*, **2012**, 12, 4901-6	11.5	49
64	Proton hopping and long-range transport in the protic ionic liquid [Im][TFSI], probed by pulsed-field gradient NMR and quasi-elastic neutron scattering. *Journal of Physical Chemistry B*, **2012**, 116, 8201-9	3.4	51
63	Tunable Phase Behavior of Polystyrene–Polypeptoid Block Copolymers. *Macromolecules*, **2012**, 45, 6027-6035	5.5	43
62	Subsecond Morphological Changes in Nafion during Water Uptake Detected by Small-Angle X-ray Scattering.. *ACS Macro Letters*, **2012**, 1, 33-36	6.6	90
61	Determination of the persistence length of helical and non-helical polypeptoids in solution. *Soft Matter*, **2012**, 8, 3673	3.6	62
60	Molecular solar thermal (MOST) energy storage and release system. *Energy and Environmental Science*, **2012**, 5, 8534	35.4	128
59	A High-Performance Solution-Processable Hybrid Thermoelectric Material **2012**,		1

58	Controlling Nanorod Self-Assembly in Polymer Thin Films. *Macromolecules*, **2011**, 44, 7364-7371	5.5	29
57	Increased Order□Disorder Transition Temperature for a Rod□Coil Block Copolymer in the Presence of a Magnetic Field. *Macromolecules*, **2011**, 44, 7503-7507	5.5	17
56	Thermoelectricity in fullerene-metal heterojunctions. *Nano Letters*, **2011**, 11, 4089-94	11.5	140
55	Real-Time Observation of Poly(3-alkylthiophene) Crystallization and Correlation with Transient Optoelectronic Properties. *Macromolecules*, **2011**, 44, 6653-6658	5.5	92
54	Controlling inelastic light scattering quantum pathways in graphene. *Nature*, **2011**, 471, 617-20	50.4	422
53	Ionic Conductivity of Nanostructured Block Copolymer/Ionic Liquid Membranes. *Macromolecules*, **2011**, 44, 5281-5288	5.5	85
52	Poly(3-alkylthiophene) diblock copolymers with ordered microstructures and continuous semiconducting pathways. *Journal of the American Chemical Society*, **2011**, 133, 9270-3	16.4	108
51	Inverse rectification in donor-acceptor molecular heterojunctions. *ACS Nano*, **2011**, 5, 9256-63	16.7	70
50	Thermoelectricity at the Organic-Inorganic Interface **2010**,		1
49	Water-processable polymer-nanocrystal hybrids for thermoelectrics. *Nano Letters*, **2010**, 10, 4664-7	11.5	407
48	Control of Crystallization and Melting Behavior in Sequence Specific Polypeptoids. *Macromolecules*, **2010**, 43, 5627-5636	5.5	86
47	Synthesis and characterization of fluorinated heterofluorene-containing donor-acceptor systems. *Journal of Organic Chemistry*, **2010**, 75, 1871-87	4.2	34
46	Effect of an Ionic Liquid Solvent on the Phase Behavior of Block Copolymers. *Macromolecules*, **2010**, 43, 5417-5423	5.5	55
45	Ionic Liquid Distribution in Ordered Block Copolymer Solutions. *Macromolecules*, **2010**, 43, 3750-3756	5.5	43
44	Liquid Crystalline Orientation of Rod Blocks within Lamellar Nanostructures from Rod□Coil Diblock Copolymers. *Macromolecules*, **2010**, 43, 6531-6534	5.5	12
43	Hierarchical self-assembly of a biomimetic diblock copolypeptoid into homochiral superhelices. *Journal of the American Chemical Society*, **2010**, 132, 16112-9	16.4	119
42	Tuning Polythiophene Crystallization through Systematic Side Chain Functionalization. *Macromolecules*, **2010**, 43, 7895-7899	5.5	136
41	Universal and Solution-Processable Precursor to Bismuth Chalcogenide Thermoelectrics. *Chemistry of Materials*, **2010**, 22, 1943-1945	9.6	47

40	Fundamentals of energy transport, energy conversion, and thermal properties in organic–inorganic heterojunctions. *Chemical Physics Letters*, **2010**, 491, 109-122	2.5	139
39	Phase Behavior of Polystyrene-block-poly(2-vinylpyridine) Copolymers in a Selective Ionic Liquid Solvent. *Macromolecules*, **2009**, 42, 4604-4613	5.5	74
38	Block Copolymers for Organic Optoelectronics. *Macromolecules*, **2009**, 42, 9205-9216	5.5	356
37	Synthesis and Self-Assembly of Poly(diethylhexyloxy-p-phenylenevinylene)-b-poly(methyl methacrylate) Rod–Coil Block Copolymers. *Macromolecules*, **2009**, 42, 4208-4219	5.5	64
36	Identifying the length dependence of orbital alignment and contact coupling in molecular heterojunctions. *Nano Letters*, **2009**, 9, 1164-9	11.5	182
35	The nature of transport variations in molecular heterojunction electronics. *Nano Letters*, **2009**, 9, 3406-12	11.5	91
34	The relationship between morphology and performance of donor–acceptor rod–coil block copolymer solar cells. *Soft Matter*, **2009**, 5, 4219	3.6	122
33	Rheological properties and the mechanical signatures of phase transitions in weakly-segregated rod-coil block copolymers. *Soft Matter*, **2009**, 5, 2453	3.6	11
32	Near-surface and internal lamellar structure and orientation in thin films of rod–coil block copolymers. *Soft Matter*, **2009**, 5, 182-192	3.6	19
31	Spatial resolution of a type II heterojunction in a single bipolar molecule. *Nano Letters*, **2009**, 9, 3963-7	11.5	26
30	Self-Assembly of Rod–Coil Block Copolymers and Their Application in Electroluminescent Devices. *Macromolecules*, **2008**, 41, 7152-7159	5.5	69
29	Enhanced thermopower in PbSe nanocrystal quantum dot superlattices. *Nano Letters*, **2008**, 8, 2283-8	11.5	230
28	Probing the chemistry of molecular heterojunctions using thermoelectricity. *Nano Letters*, **2008**, 8, 715-9	11.5	230
27	Materials science. Directing self-assembly toward perfection. *Science*, **2008**, 321, 919-20	33.3	45
26	Synthesis and characterization of 2,7-bis(pentafluorophenylethynyl)hexafluoroheterofluorenes: new materials with high electron affinities. *Chemical Communications*, **2008**, 5107-9	5.8	17
25	Square grains in asymmetric rod-coil block copolymers. *Langmuir*, **2008**, 24, 1604-7	4	15
24	Crystalline Structure in Thin Films of DEH-PPV Homopolymer and PPV-b-PI Rod–Coil Block Copolymers. *Macromolecules*, **2008**, 41, 58-66	5.5	40
23	Universalization of the Phase Diagram for a Model Rod–Coil Diblock Copolymer. *Macromolecules*, **2008**, 41, 6809-6817	5.5	99

22	Domain Size Control in Self-Assembling Rod–Coil Block Copolymer and Homopolymer Blends. *Macromolecules*, **2007**, 40, 3320-3327	5.5	29
21	Hierarchical nanostructure control in rod-coil block copolymers with magnetic fields. *Nano Letters*, **2007**, 7, 2742-6	11.5	81
20	Analysis of Order Formation in Block Copolymer Thin Films Using Resonant Soft X-ray Scattering. *Macromolecules*, **2007**, 40, 2092-2099	5.5	80
19	Nonlamellar Phases in Asymmetric Rod–Coil Block Copolymers at Increased Segregation Strengths. *Macromolecules*, **2007**, 40, 6922-6929	5.5	96
18	Thin Film Structure of Symmetric Rod–Coil Block Copolymers. *Macromolecules*, **2007**, 40, 3287-3295	5.5	56
17	Thermoelectricity in molecular junctions. *Science*, **2007**, 315, 1568-71	33.3	726
16	Room temperature thermal conductance of alkanedithiol self-assembled monolayers. *Applied Physics Letters*, **2006**, 89, 173113	3.4	142
15	Higher Order Liquid Crystalline Structure in Low-Polydispersity DEH-PPV. *Macromolecules*, **2006**, 39, 4469-4479	5.5	42
14	Interpretation of stochastic events in single molecule conductance measurements. *Nano Letters*, **2006**, 6, 2362-7	11.5	109
13	Phase Transitions in Asymmetric Rod–Coil Block Copolymers. *Macromolecules*, **2006**, 39, 7078-7083	5.5	79
12	Grain Structure in Block Copolymer Thin Films Studied by Guided Wave Depolarized Light Scattering. *Macromolecules*, **2005**, 38, 4282-4288	5.5	6
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