

Jeffrey Moore

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/402752/jeffrey-moore-publications-by-year.pdf>

Version: 2024-02-21

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

482
papers

46,662
citations

111
h-index

202
g-index

524
ext. papers

50,487
ext. citations

11.1
avg, IF

7.66
L-index

#	Paper	IF	Citations
482	Trioxazolo[2]metacyclophane: synthesis, structural analysis, and optical properties.. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2022 , 78, 81-87	0.8	
481	Mechanically Triggered Carbon Monoxide Release with Turn-On Aggregation-Induced Emission.. <i>Journal of the American Chemical Society</i> , 2022 ,	16.4	8
480	Mesolytic cleavage of homobenzylic ethers for programmable end-of-life function in redoxmers. <i>Journal of Materials Chemistry A</i> , 2022 , 10, 7739-7753	13	1
479	Using automated synthesis to understand the role of side chains on molecular charge transport.. <i>Nature Communications</i> , 2022 , 13, 2102	17.4	1
478	Anisotropic Foams Via Frontal Polymerization. <i>Advanced Materials</i> , 2021 , e2105821	24	2
477	Reversible Switching of Molecular Conductance in Viologens is Controlled by the Electrochemical Environment. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 21862-21872	3.8	0
476	Spontaneous Patterning during Frontal Polymerization. <i>ACS Central Science</i> , 2021 , 7, 603-612	16.8	8
475	Fast, reversible mechanochromism of regioisomeric oxazine mechanophores: Developing in situ responsive force probes for polymeric materials. <i>CheM</i> , 2021 , 7, 1080-1091	16.2	28
474	Rapid synchronized fabrication of vascularized thermosets and composites. <i>Nature Communications</i> , 2021 , 12, 2836	17.4	9
473	Selective Ring-Opening Allene Metathesis: Polymerization or Ruthenium Vinylidene Formation.. <i>ACS Macro Letters</i> , 2021 , 10, 642-648	6.6	2
472	Survey of Catalysts for Frontal Ring-Opening Metathesis Polymerization. <i>Macromolecules</i> , 2021 , 54, 5117-51238	5.5	1
471	Flyby reaction trajectories: Chemical dynamics under extrinsic force. <i>Science</i> , 2021 , 373, 208-212	33.3	8
470	Modeling Clinical Empathy in Narrative Essays 2021 ,		1
469	Ribosome-mediated incorporation of fluorescent amino acids into peptides in vitro. <i>Chemical Communications</i> , 2021 , 57, 2661-2664	5.8	5
468	Manipulating Frontal Polymerization and Instabilities with Phase-Changing Microparticles. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 7537-7545	3.4	2
467	Transition between Nonresonant and Resonant Charge Transport in Molecular Junctions. <i>Nano Letters</i> , 2021 , 21, 8340-8347	11.5	2
466	Quantum Chemistry-Informed Active Learning to Accelerate the Design and Discovery of Sustainable Energy Storage Materials. <i>Chemistry of Materials</i> , 2020 , 32, 6338-6346	9.6	24

465	Localization of Spiropyran Activation. <i>Langmuir</i> , 2020 , 36, 5847-5854	4	2
464	Polymer with Competing Depolymerization Pathways: Chain Unzipping versus Chain Scission. <i>ACS Macro Letters</i> , 2020 , 9, 855-859	6.6	3
463	Covalent Ag-C Bonding Contacts from Unprotected Terminal Acetylenes for Molecular Junctions. <i>Nano Letters</i> , 2020 , 20, 5490-5495	11.5	11
462	Energy storage emerging: A perspective from the Joint Center for Energy Storage Research. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 12550-12557	11.5	103
461	Realistic Ion Dynamics through Charge Renormalization in Nonaqueous Electrolytes. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 3214-3220	3.4	11
460	Kinetic Control in the Synthesis of a M _B ius Tris((ethynyl)[5]helicene) Macrocycle Using Alkyne Metathesis. <i>Journal of the American Chemical Society</i> , 2020 , 142, 6493-6498	16.4	23
459	Charge Transport in Sequence-Defined Conjugated Oligomers. <i>Journal of the American Chemical Society</i> , 2020 , 142, 4852-4861	16.4	15
458	Triggered Transience of Plastic Materials by a Single Electron Transfer Mechanism. <i>ACS Central Science</i> , 2020 , 6, 266-273	16.8	12
457	Characterizing intermolecular interactions in redox-active pyridinium-based molecular junctions. <i>Journal of Electroanalytical Chemistry</i> , 2020 , 875, 114070	4.1	2
456	Cross-Linking Agents for Enhanced Performance of Thermosets Prepared via Frontal Ring-Opening Metathesis Polymerization. <i>Macromolecules</i> , 2020 , 53, 8360-8366	5.5	9
455	Rapid Synthesis of Elastomers and Thermosets with Tunable Thermomechanical Properties. <i>ACS Macro Letters</i> , 2020 , 9, 819-824	6.6	21
454	Quantifying Error Correction through a Rule-Based Model of Strand Escape from an α -Rung Ladder. <i>Journal of the American Chemical Society</i> , 2020 , 142, 162-168	16.4	2
453	Frontal polymerization of unidirectional carbon-fiber-reinforced composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020 , 130, 105689	8.4	21
452	Photoexcitation of Grubbs's Second-Generation Catalyst Initiates Frontal Ring-Opening Metathesis Polymerization. <i>ACS Macro Letters</i> , 2020 , 9, 1563-1568	6.6	9
451	Kinetic and Thermodynamic Control in Dynamic Covalent Synthesis. <i>Trends in Chemistry</i> , 2020 , 2, 1043-1051	11.8	7
450	Fluorescence-Enabled Self-Reporting for Redox Flow Batteries. <i>ACS Energy Letters</i> , 2020 , 5, 3062-3068	20.1	6
449	Ribosome-mediated polymerization of long-chain carbon and cyclic amino acids into peptides in vitro. <i>Nature Communications</i> , 2020 , 11, 4304	17.4	22
448	Polymer-Peptide Conjugates Convert Amyloid into Protein Nanobundles through Fragmentation and Lateral Association. <i>ACS Applied Nano Materials</i> , 2020 , 3, 937-945	5.6	7

447	Functionalized and Degradable Polyphthalaldehyde Derivatives. <i>Journal of the American Chemical Society</i> , 2019 , 141, 14544-14548	16.4	21
446	Charge Transport and Quantum Interference Effects in Oxazole-Terminated Conjugated Oligomers. <i>Journal of the American Chemical Society</i> , 2019 , 141, 16079-16084	16.4	17
445	Multivalent Polymer-Peptide Conjugates-A General Platform for Inhibiting Amyloid Beta Peptide Aggregation. <i>ACS Macro Letters</i> , 2019 , 8, 1365-1371	6.6	8
444	Sterile particle-induced inflammation is mediated by macrophages releasing IL-33 through a Bruton's tyrosine kinase-dependent pathway. <i>Nature Materials</i> , 2019 , 18, 289-297	27	18
443	Multicolor Mechanochromism of a Polymer/Silica Composite with Dual Distinct Mechanophores. <i>Journal of the American Chemical Society</i> , 2019 , 141, 1898-1902	16.4	74
442	Modulating Noncovalent Cross-links with Molecular Switches. <i>Journal of the American Chemical Society</i> , 2019 , 141, 3597-3604	16.4	24
441	Frontal Ring-Opening Metathesis Copolymerization: Deviation of Front Velocity from Mixing Rules. <i>ACS Macro Letters</i> , 2019 , 8, 846-851	6.6	13
440	A tetrahedral molecular cage with a responsive vertex. <i>Chemical Science</i> , 2019 , 10, 7043-7048	9.4	8
439	Observation of Microheterogeneity in Highly Concentrated Nonaqueous Electrolyte Solutions. <i>Journal of the American Chemical Society</i> , 2019 , 141, 8041-8046	16.4	6
438	High-intensity focused ultrasound-induced mechanochemical transduction in synthetic elastomers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 10214-10222	11.5	25
437	Effect of Polymerized Ionic Liquid Structure and Morphology on Shockwave Energy Dissipation. <i>ACS Macro Letters</i> , 2019 , 535-539	6.6	8
436	Correlation of Immune Markers With Outcomes in Biliary Atresia Following Intravenous Immunoglobulin Therapy. <i>Hepatology Communications</i> , 2019 , 3, 685-696	6	8
435	Spatially Selective and Density-Controlled Activation of Interfacial Mechanophores. <i>Journal of the American Chemical Society</i> , 2019 , 141, 4080-4085	16.4	31
434	Architecture-Controlled Ring-Opening Polymerization for Dynamic Covalent Poly(disulfide)s. <i>Journal of the American Chemical Society</i> , 2019 , 141, 17075-17080	16.4	55
433	Expanding the limits of the second genetic code with ribozymes. <i>Nature Communications</i> , 2019 , 10, 5097	17.4	54
432	Molecular Sciences Made Personal: Developing Curiosity in General and Organic Chemistry with a Multi-Semester Utility Value Intervention. <i>ACS Symposium Series</i> , 2019 , 105-118	0.4	1
431	A Phase I/IIa Trial of Intravenous Immunoglobulin Following Portoenterostomy in Biliary Atresia. <i>Journal of Pediatric Gastroenterology and Nutrition</i> , 2019 , 68, 495-501	2.8	17
430	Intrachain Charge Transport through Conjugated Donor-Acceptor Oligomers. <i>ACS Applied Electronic Materials</i> , 2019 , 1, 7-12	4	17

429	Frontal polymerization accelerated by continuous conductive elements. <i>Journal of Applied Polymer Science</i> , 2019 , 136, 47418	2.9	17
428	Fully Recyclable Metastable Polymers and Composites. <i>Chemistry of Materials</i> , 2019 , 31, 398-406	9.6	31
427	Processing-dependent mechanical properties of solvent cast cyclic polyphthalaldehyde. <i>Polymer</i> , 2019 , 162, 29-34	3.9	6
426	A Robust Oil-in-Oil Emulsion for the Nonaqueous Encapsulation of Hydrophilic Payloads. <i>Journal of the American Chemical Society</i> , 2018 , 140, 3619-3625	16.4	29
425	Product Distribution from Precursor Bite Angle Variation in Multitopic Alkyne Metathesis: Evidence for a Putative Kinetic Bottleneck. <i>Journal of the American Chemical Society</i> , 2018 , 140, 5825-5833	16.4	28
424	Effect of the Backbone Tether on the Electrochemical Properties of Soluble Cyclopropenium Redox-Active Polymers. <i>Macromolecules</i> , 2018 , 51, 3539-3546	5.5	26
423	Frontal Polymerization of Dicyclopentadiene: A Numerical Study. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 4583-4591	3.4	23
422	Cyclic Poly(phthalaldehyde): Thermoforming a Bulk Transient Material. <i>ACS Macro Letters</i> , 2018 , 7, 47-526.6		33
421	Electrostatically Driven Guest Binding in a Self-Assembled Porous Network at the Liquid/Solid Interface. <i>Langmuir</i> , 2018 , 34, 6036-6045	4	7
420	Interfacial Mechanophore Activation Using Laser-Induced Stress Waves. <i>Journal of the American Chemical Society</i> , 2018 , 140, 5000-5003	16.4	26
419	Size control of cross-linked carboxy-functionalized polystyrene particles: Four orders of magnitude of dimensional versatility. <i>European Polymer Journal</i> , 2018 , 101, 202-210	5.2	11
418	Dynamic Remodeling of Covalent Networks via Ring-Opening Metathesis Polymerization. <i>ACS Macro Letters</i> , 2018 , 7, 933-937	6.6	35
417	Impact of Charge Transport Dynamics and Conditioning on Cycling Efficiency within Single Redox Active Colloids. <i>ChemElectroChem</i> , 2018 , 5, 3006-3013	4.3	12
416	Pediatric Pulmonary Artery Rehabilitation: A Review of Our Experience and a Novel Approach Using Bronchial Blockers. <i>Pediatric Cardiology</i> , 2018 , 39, 1236-1241	2.1	3
415	Accelerated Thermal Depolymerization of Cyclic Polyphthalaldehyde with a Polymeric Thermoacid Generator. <i>Macromolecular Rapid Communications</i> , 2018 , 39, e1800046	4.8	10
414	Rapid energy-efficient manufacturing of polymers and composites via frontal polymerization. <i>Nature</i> , 2018 , 557, 223-227	50.4	161
413	Solid-Liquid Lithium Electrolyte Nanocomposites Derived from Porous Molecular Cages. <i>Journal of the American Chemical Society</i> , 2018 , 140, 7504-7509	16.4	28
412	Programmable Payload Release from Transient Polymer Microcapsules Triggered by a Specific Ion Coactivation Effect. <i>Journal of the American Chemical Society</i> , 2018 , 140, 94-97	16.4	22

411	Colloidal Metal-Organic Framework Hexapods Prepared from Postsynthesis Etching with Enhanced Catalytic Activity and Rollable Packing. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 40990-40995	9.5	14
410	Autonomous Damage Detection in Multilayered Coatings via Integrated Aggregation-Induced Emission Luminogens. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 40361-40365	9.5	23
409	Mechanical Reactivity of Two Different Spiropyran Mechanophores in Polydimethylsiloxane. <i>Macromolecules</i> , 2018 , 51, 9177-9183	5.5	75
408	Designing Redox-Active Oligomers for Crossover-Free, Nonaqueous Redox-Flow Batteries with High Volumetric Energy Density. <i>Chemistry of Materials</i> , 2018 , 30, 3861-3866	9.6	33
407	The ultrastructure of escape organs: setose arms and cross-striated muscles in <i>Hexarthra mira</i> (Rotifera: Gnesiotrocha: Flosculariaceae). <i>Zoomorphology</i> , 2017 , 136, 159-173	1	3
406	Macromolecular Design Strategies for Preventing Active-Material Crossover in Non-Aqueous All-Organic Redox-Flow Batteries. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 1595-1599	16.4	84
405	Impact of Shape Persistence on the Porosity of Molecular Cages. <i>Journal of the American Chemical Society</i> , 2017 , 139, 3259-3264	16.4	33
404	Macromolecular Design Strategies for Preventing Active-Material Crossover in Non-Aqueous All-Organic Redox-Flow Batteries. <i>Angewandte Chemie</i> , 2017 , 129, 1617-1621	3.6	15
403	Ultrafast Proton Transfer in Polymer Blends Triggered by Shock Waves. <i>Journal of the American Chemical Society</i> , 2017 , 139, 3974-3977	16.4	9
402	Grubbs-inspired metathesis in the Moore group. <i>Journal of Polymer Science Part A</i> , 2017 , 55, 2935-2948	2.5	5
401	Effects of Cross-Linking Density on Interfacial Polymerization and Scaffold Formation in Functionalized Polymer Beads. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 4883-4886	3.9	7
400	Concentration-Dependent Dimerization of Anthraquinone Disulfonic Acid and Its Impact on Charge Storage. <i>Chemistry of Materials</i> , 2017 , 29, 4801-4810	9.6	77
399	Alkyl Phosphite Inhibitors for Frontal Ring-Opening Metathesis Polymerization Greatly Increase Pot Life. <i>ACS Macro Letters</i> , 2017 , 6, 609-612	6.6	47
398	Low-Ceiling-Temperature Polymer Microcapsules with Hydrophobic Payloads via Rapid Emulsion-Solvent Evaporation. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 20115-20123	9.5	21
397	Polymer-Peptide Conjugates Disassemble Amyloid β -Fibrils in a Molecular-Weight Dependent Manner. <i>Journal of the American Chemical Society</i> , 2017 , 139, 4298-4301	16.4	55
396	A programmable soft chemo-mechanical actuator exploiting a catalyzed photochemical water-oxidation reaction. <i>Soft Matter</i> , 2017 , 13, 7312-7317	3.6	12
395	Redox Active Polymers for Non-Aqueous Redox Flow Batteries: Validation of the Size-Exclusion Approach. <i>Journal of the Electrochemical Society</i> , 2017 , 164, A1688-A1694	3.9	65
394	Hexagonal Molecular Tiling by Hexagonal Macrocycles at the Liquid/Solid Interface: Structural Effects on Packing Geometry. <i>Langmuir</i> , 2017 , 33, 12453-12462	4	17

393	A Robust Damage-Reporting Strategy for Polymeric Materials Enabled by Aggregation-Induced Emission. <i>ACS Central Science</i> , 2016 , 2, 598-603	16.8	87
392	Redox Active Colloids as Discrete Energy Storage Carriers. <i>Journal of the American Chemical Society</i> , 2016 , 138, 13230-13237	16.4	81
391	Pressure-Induced Neutral-to-Ionic Transition in an Amorphous Organic Material. <i>Chemistry of Materials</i> , 2016 , 28, 6446-6449	9.6	2
390	Polymerization Initiated by Particle Contact: A Quiescent State Trigger for Materials Synthesis. <i>Journal of the American Chemical Society</i> , 2016 , 138, 12336-9	16.4	4
389	Distinguishing Pseudomeningocele, Epidural Hematoma, and Postoperative Infection on Postoperative MRI. <i>Clinical Spine Surgery</i> , 2016 , 29, E471-E474	1.8	14
388	Arrhythmias After Stage I Hybrid Palliation in Single-Ventricle Patients. <i>Pediatric Cardiology</i> , 2016 , 37, 1416-1421	2.1	3
387	The lightest organic radical cation for charge storage in redox flow batteries. <i>Scientific Reports</i> , 2016 , 6, 32102	4.9	40
386	Base-Triggered Degradation of Poly(vinyl ester sulfone)s with Tunable Sensitivity. <i>ACS Macro Letters</i> , 2016 , 5, 1257-1260	6.6	17
385	High-Performance Mesostructured Organic Hybrid Pseudocapacitor Electrodes. <i>Advanced Functional Materials</i> , 2016 , 26, 903-910	15.6	52
384	Effect of Polymer Grafting Density on Mechanophore Activation at Heterointerfaces. <i>ACS Macro Letters</i> , 2016 , 5, 819-822	6.6	27
383	Crystal structures of three complexes of zinc chloride with tri-tert-butyl-phosphane. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2016 , 72, 35-9	0.7	4
382	Mechanogeneration of Acid from Oxime Sulfonates. <i>Journal of the American Chemical Society</i> , 2016 , 138, 2540-3	16.4	37
381	Superoxide (Electro)Chemistry on Well-Defined Surfaces in Organic Environments. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 15909-15914	3.8	23
380	Kinetically Trapped Tetrahedral Cages via Alkyne Metathesis. <i>Journal of the American Chemical Society</i> , 2016 , 138, 2182-5	16.4	117
379	Is Molecular Weight or Degree of Polymerization a Better Descriptor of Ultrasound-Induced Mechanochemical Transduction?. <i>ACS Macro Letters</i> , 2016 , 5, 177-180	6.6	79
378	Synthesis and structures of 11,11,12,12-tetracyano-2,6-diiodo-9,10-anthraquinodimethane and its 2:1 cocrystals with anthracene, pyrene and tetrathiafulvalene. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2016 , 72, 923-931	0.8	2
377	Polymers with autonomous life-cycle control. <i>Nature</i> , 2016 , 540, 363-370	50.4	215
376	Dynamic OddEven Effect in Liquid n-Alkanes near Their Melting Points. <i>Angewandte Chemie</i> , 2016 , 128, 14296-14301	3.6	3

375	Synthesis of Pyridine and Pyrazine-BF ₃ Complexes and Their Characterization in Solution and Solid State. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 8461-8471	3.8	18
374	Impact of electrolyte composition on the reactivity of a redox active polymer studied through surface interrogation and ion-sensitive scanning electrochemical microscopy. <i>Analyst, The</i> , 2016 , 141, 3842-50	5	22
373	Scanning Electrochemical Microscopy and Hydrodynamic Voltammetry Investigation of Charge Transfer Mechanisms on Redox Active Polymers. <i>Journal of the Electrochemical Society</i> , 2016 , 163, H3006-H3013	2.9	39
372	Frontal Ring-Opening Metathesis Polymerization of Exo-Dicyclopentadiene for Low Catalyst Loadings. <i>ACS Macro Letters</i> , 2016 , 5, 593-596	6.6	41
371	Odd-Even Structural Sensitivity on Dynamics in Network-Forming Ionic Liquids. <i>Chemistry of Materials</i> , 2016 , 28, 3227-3233	9.6	13
370	Regioisomer-Specific Mechanochromism of Naphthopyran in Polymeric Materials. <i>Journal of the American Chemical Society</i> , 2016 , 138, 12328-31	16.4	117
369	Redox Active Polymers as Soluble Nanomaterials for Energy Storage. <i>Accounts of Chemical Research</i> , 2016 , 49, 2649-2657	24.3	94
368	Impact of Backbone Tether Length and Structure on the Electrochemical Performance of Viologen Redox Active Polymers. <i>Chemistry of Materials</i> , 2016 , 28, 7362-7374	9.6	47
367	Dynamic Odd-Even Effect in Liquid n-Alkanes near Their Melting Points. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 14090-14095	16.4	29
366	Crystal Structure, Thermal Properties, and Shock-Wave-Induced Nucleation of 1,2-Bis(phenylethynyl)benzene. <i>Crystal Growth and Design</i> , 2016 , 16, 6148-6151	3.5	4
365	Synthesis of Cycloparaphenyleneacetylene via Alkyne Metathesis: C Complexation and Copper-Free Triple Click Reaction. <i>Journal of the American Chemical Society</i> , 2016 , 138, 13814-13817	16.4	56
364	An analysis of 2 fusion methods for the treatment of osteomyelitis following fractures about the ankle. <i>Foot and Ankle International</i> , 2015 , 36, 547-55	3.3	10
363	Biopolymers: Multidimensional Vascularized Polymers using Degradable Sacrificial Templates (Adv. Funct. Mater. 7/2015). <i>Advanced Functional Materials</i> , 2015 , 25, 1042-1042	15.6	
362	Polymer mechanochemistry: from destructive to productive. <i>Accounts of Chemical Research</i> , 2015 , 48, 2181-90	24.3	352
361	Tunable Thermal Degradation of Poly(vinyl butyl carbonate sulfone)s via Side-Chain Branching. <i>ACS Macro Letters</i> , 2015 , 4, 665-668	6.6	40
360	pH-Dependent Switchable Permeability from Core-Shell Microcapsules. <i>ACS Macro Letters</i> , 2015 , 4, 441-445	4.5	10
359	New frontiers for encapsulation in the chemical industry. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 6359-68	9.5	52
358	Oligomer-coated carbon nanotube chemiresistive sensors for selective detection of nitroaromatic explosives. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 7471-5	9.5	46

357	Trigger chemistries for better industrial formulations. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 6369-82	9.5	50
356	Water as a Promoter and Catalyst for Dioxygen Electrochemistry in Aqueous and Organic Media. <i>ACS Catalysis</i> , 2015 , 5, 6600-6607	13.1	92
355	Improved TTF functionalization of polymers for two-dimensional charge-transfer networks. <i>Polymer Chemistry</i> , 2015 , 6, 8325-8330	4.9	2
354	Evolutionary Design of Low Molecular Weight Organic Anolyte Materials for Applications in Nonaqueous Redox Flow Batteries. <i>Journal of the American Chemical Society</i> , 2015 , 137, 14465-72	16.4	154
353	BF ₃ -promoted electrochemical properties of quinoxaline in propylene carbonate. <i>RSC Advances</i> , 2015 , 5, 18822-18831	3.7	25
352	Multidimensional Vascularized Polymers using Degradable Sacrificial Templates. <i>Advanced Functional Materials</i> , 2015 , 25, 1043-1052	15.6	48
351	Photodoping and enhanced visible light absorption in single-walled carbon nanotubes functionalized with a wide band gap oligomer. <i>Advanced Materials</i> , 2015 , 27, 162-7	24	18
350	Transient Electronics: Thermally Triggered Degradation of Transient Electronic Devices (Adv. Mater. 25/2015). <i>Advanced Materials</i> , 2015 , 27, 3782-3782	24	
349	Depolymerizable polymers: preparation, applications, and future outlook. <i>MRS Communications</i> , 2015 , 5, 191-204	2.7	42
348	Rapid 3D Extrusion of Synthetic Tumor Microenvironments. <i>Advanced Materials</i> , 2015 , 27, 5512-7	24	93
347	Biomimetische Selbstheilung. <i>Angewandte Chemie</i> , 2015 , 127, 10572-10593	3.6	21
346	Thermally triggered degradation of transient electronic devices. <i>Advanced Materials</i> , 2015 , 27, 3783-8	24	122
345	Biomimetic Self-Healing. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 10428-47	16.4	271
344	Molecular Design for Dual Modulation Effect of Amyloid Protein Aggregation. <i>Journal of the American Chemical Society</i> , 2015 , 137, 8062-8	16.4	20
343	Synthesis and reactivity of anthracenyl-substituted arenediynes. <i>Tetrahedron Letters</i> , 2015 , 56, 3155-3159		4
342	Shock-Induced Ordering in a Nano-segregated Network-Forming Ionic Liquid. <i>Journal of the American Chemical Society</i> , 2015 , 137, 16000-3	16.4	8
341	A Retro-Staudinger Cycloaddition: Mechanochemical Cycloelimination of a β -Lactam Mechanophore. <i>Journal of the American Chemical Society</i> , 2015 , 137, 10946-9	16.4	47
340	Crystal structure of 9,10-bis-(1,3-di-thiol-2-yl-idene)-9,10-di-hydro-anthracene. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2015 , 71, 1475-9	0.7	2

339	Crystal structure of 1,3-bis-(2,3-di-methyl-quinoxalin-6-yl)benzene. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2015 , 71, 1429-32	0.7	
338	Shockwave loading of mechanochemically active polymer coatings. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 5350-5	9.5	61
337	A self-healing biomaterial based on free-radical polymerization. <i>Journal of Biomedical Materials Research - Part A</i> , 2014 , 102, 3024-32	5.4	23
336	Continuous self-healing life cycle in vascularized structural composites. <i>Advanced Materials</i> , 2014 , 26, 4302-8	24	167
335	Restoration of large damage volumes in polymers. <i>Science</i> , 2014 , 344, 620-3	33.3	198
334	Divergent Macrocyclization Mechanisms in the Cationic Initiated Polymerization of Ethyl Glyoxylate. <i>Macromolecules</i> , 2014 , 47, 3603-3607	5.5	19
333	Rapid stiffening of a microfluidic endoskeleton via frontal polymerization. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 18469-74	9.5	22
332	Triggered transience of metastable poly(phthalaldehyde) for transient electronics. <i>Advanced Materials</i> , 2014 , 26, 7637-42	24	139
331	Mechanophore activation at heterointerfaces. <i>Journal of the American Chemical Society</i> , 2014 , 136, 15925-1604	16.4	83
330	Depolymerizable, adaptive supramolecular polymer nanoparticles and networks. <i>Polymer Chemistry</i> , 2014 , 5, 3788-3794	4.9	44
329	Alkyne mechanochemistry: putative activation by transoidal bending. <i>Chemical Communications</i> , 2014 , 50, 13235-8	5.8	11
328	Impact of redox-active polymer molecular weight on the electrochemical properties and transport across porous separators in nonaqueous solvents. <i>Journal of the American Chemical Society</i> , 2014 , 136, 16309-16	16.4	136
327	Copolymerization of o-Phthalaldehyde and Ethyl Glyoxylate: Cyclic Macromolecules with Alternating Sequence and Tunable Thermal Properties. <i>Macromolecules</i> , 2014 , 47, 5509-5513	5.5	24
326	Odd-even glass transition temperatures in network-forming ionic glass homologue. <i>Journal of the American Chemical Society</i> , 2014 , 136, 1268-71	16.4	19
325	Multivalent macromolecules redirect nucleation-dependent fibrillar assembly into discrete nanostructures. <i>Journal of the American Chemical Society</i> , 2014 , 136, 5233-6	16.4	38
324	Intramolecular energy transfer in a synthetic dendron-based light harvesting system. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2014 , 295, 26-33	4.7	2
323	Fracture-induced activation in mechanophore-linked, rubber toughened PMMA. <i>Polymer</i> , 2014 , 55, 4164-4171	16.4	65
322	Relaxing Conformational Constraints in Dynamic Macrocycle Synthesis. <i>Macromolecules</i> , 2014 , 47, 3829-3836	33.3	18

321	Solvent Swelling Activation of a Mechanophore in a Polymer Network. <i>Macromolecules</i> , 2014 , 47, 2690-2694	15.6	78
320	The Effect of Polymer Chain Alignment and Relaxation on Force-Induced Chemical Reactions in an Elastomer. <i>Advanced Functional Materials</i> , 2014 , 24, 1529-1537	15.6	72
319	Microencapsulated Carbon Black Suspensions for Restoration of Electrical Conductivity. <i>Advanced Functional Materials</i> , 2014 , 24, 2947-2956	15.6	31
318	Mechanically triggered heterolytic unzipping of a low-ceiling-temperature polymer. <i>Nature Chemistry</i> , 2014 , 6, 623-8	17.6	157
317	Toward a Molecular Understanding of Energetics in LiB Batteries Using Nonaqueous Electrolytes: A High-Level Quantum Chemical Study. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 11545-11558	3.8	120
316	Use of corticosteroids after hepatoportoenterostomy for bile drainage in infants with biliary atresia: the START randomized clinical trial. <i>JAMA - Journal of the American Medical Association</i> , 2014 , 311, 1750-9	27.4	112
315	Pickering-Emulsion-Templated Encapsulation of a Hydrophilic Amine and Its Enhanced Stability Using Poly(allyl amine). <i>ACS Macro Letters</i> , 2014 , 3, 976-980	6.6	40
314	Carbon Black: Microencapsulated Carbon Black Suspensions for Restoration of Electrical Conductivity (Adv. Funct. Mater. 20/2014). <i>Advanced Functional Materials</i> , 2014 , 24, 2922-2922	15.6	
313	The mechanochemical production of phenyl cations through heterolytic bond scission. <i>Faraday Discussions</i> , 2014 , 170, 385-94	3.6	22
312	Metastatic lesions in the musculoskeletal system from hepatocellular carcinoma. <i>Current Orthopaedic Practice</i> , 2014 , 25, 488-492	0.4	
311	Thermally stable autonomic healing in epoxy using a dual-microcapsule system. <i>Advanced Materials</i> , 2014 , 26, 282-7	24	156
310	Homochiral Self-Sorting of BINOL Macrocycles. <i>Chemical Science</i> , 2014 , 5, 81-85	9.4	59
309	Subaquatic reaming during arthrodesis of the first metatarsophalangeal joint to prevent thermal necrosis of bone. <i>Orthopedics</i> , 2014 , 37, 389-91	1.5	4
308	Peer tutoring with the aid of the Internet. <i>British Journal of Educational Technology</i> , 2013 , 44, 144-155	4.3	16
307	Syntheses and properties of graphyne fragments: trigonally expanded dehydrobenzo[12]annulenes. <i>Chemistry - A European Journal</i> , 2013 , 19, 11251-60	4.8	54
306	Self-Healing Epoxies and Their Composites 2013 , 361-380		9
305	Extrahepatic anomalies in infants with biliary atresia: results of a large prospective North American multicenter study. <i>Hepatology</i> , 2013 , 58, 1724-31	11.2	96
304	Dynamic Covalent Macrocyclic Poly(phthalaldehyde)s: Scrambling Cyclic Homopolymer Mixtures Produces Multi-Block and Random Cyclic Copolymers. <i>Macromolecules</i> , 2013 , 46, 8121-8128	5.5	27

303	Development and performance characterization of a polyamide nanofiltration membrane modified with covalently bonded aramide dendrimers. <i>Environmental Science & Technology</i> , 2013 , 47, 8642-9	10.3	6
302	Substituent Effect on o-Vinylbenzaldehyde Cyclopolymerization. <i>ACS Macro Letters</i> , 2013 , 2, 935-938	6.6	5
301	UV patternable thin film chemistry for shape and functionally versatile self-oscillating gels. <i>Soft Matter</i> , 2013 , 9, 1231-1243	3.6	43
300	Polymer mechanochemistry: techniques to generate molecular force via elongational flows. <i>Chemical Society Reviews</i> , 2013 , 42, 7497-506	58.5	208
299	Exploiting Force Sensitive Spiropyrans as Molecular Level Probes. <i>Macromolecules</i> , 2013 , 46, 3746-3752	5.5	109
298	Mechanophores for Self-Healing Applications 2013 , 193-214		4
297	Functional Phthalaldehyde Polymers by Copolymerization with Substituted Benzaldehydes. <i>Macromolecules</i> , 2013 , 46, 608-612	5.5	44
296	Time-Dependent Mechanochemical Response of SP-Cross-Linked PMMA. <i>Macromolecules</i> , 2013 , 46, 8917-8921	5.9	53
295	One-step surface doping of organic nanofibers to achieve high dark conductivity and chemiresistor sensing of amines. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 7704-8	9.5	24
294	End group characterization of poly(phthalaldehyde): surprising discovery of a reversible, cationic macrocyclization mechanism. <i>Journal of the American Chemical Society</i> , 2013 , 135, 12755-61	16.4	99
293	Nanofiltration Membranes with Modified Active Layer Using Aromatic Polyamide Dendrimers. <i>Advanced Functional Materials</i> , 2013 , 23, 598-607	15.6	49
292	Characterization of Mechanochemically Active Polymers Using Combined Photoelasticity and Fluorescence Measurements. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2013 , 167-178	0.3	
291	Self-healing thermoset using encapsulated epoxy-amine healing chemistry. <i>Polymer</i> , 2012 , 53, 581-587	3.9	267
290	Autonomic restoration of electrical conductivity. <i>Advanced Materials</i> , 2012 , 24, 398-401	24	243
289	Self-Healing Circuits: Autonomic Restoration of Electrical Conductivity (Adv. Mater. 3/2012). <i>Advanced Materials</i> , 2012 , 24, 397-397	24	2
288	Temperature-Controlled, Reversible, Nanofiber Assembly from an Amphiphilic Macrocycle. <i>ACS Macro Letters</i> , 2012 , 1, 1335-1338	6.6	31
287	Macrocyclic depolymerization of arylene-ethynylene copolymers: a dynamic combinatorial method. <i>Chemical Communications</i> , 2012 , 48, 4426-8	5.8	18
286	Diffusion-controlled detection of trinitrotoluene: interior nanoporous structure and low highest occupied molecular orbital level of building blocks enhance selectivity and sensitivity. <i>Journal of the American Chemical Society</i> , 2012 , 134, 4978-82	16.4	129

285	Directional cyclooligomers via alkyne metathesis. <i>Journal of the American Chemical Society</i> , 2012 , 134, 9114-7	16.4	24
284	Chemical treatment of poly(lactic acid) fibers to enhance the rate of thermal depolymerization. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 503-9	9.5	51
283	Role of Mechanophore Orientation in Mechanochemical Reactions.. <i>ACS Macro Letters</i> , 2012 , 1, 163-166	6.6	90
282	Enhancing the performance of nanofiltration membranes by modifying the active layer with aramide dendrimers. <i>Environmental Science & Technology</i> , 2012 , 46, 9592-9	10.3	24
281	Arylene-ethynylene macrocycles: Privileged shape-persistent building blocks for organic materials. <i>Pure and Applied Chemistry</i> , 2012 , 84, 869-878	2.1	31
280	Alkyne Metathesis Polymerization (ADIMET) and Macrocyclization (ADIMAC) 2012 , 135-154		
279	A self-healing conductive ink. <i>Advanced Materials</i> , 2012 , 24, 2578-81, 2509	24	135
278	Proton-coupled mechanochemical transduction: a mechanogenerated acid. <i>Journal of the American Chemical Society</i> , 2012 , 134, 12446-9	16.4	163
277	Autonomic Shutdown of Lithium-Ion Batteries Using Thermoresponsive Microspheres. <i>Advanced Energy Materials</i> , 2012 , 2, 583-590	21.8	130
276	Autonomic restoration of electrical conductivity using polymer-stabilized carbon nanotube and graphene microcapsules. <i>Applied Physics Letters</i> , 2012 , 101, 043106	3.4	44
275	A Collaborative, Wiki-Based Organic Chemistry Project Incorporating Free Chemistry Software on the Web. <i>Journal of Chemical Education</i> , 2011 , 88, 764-768	2.4	21
274	Foldamer structuring by covalently bound macromolecules. <i>Journal of the American Chemical Society</i> , 2011 , 133, 19650-2	16.4	18
273	Shear activation of mechanophore-crosslinked polymers. <i>Journal of Materials Chemistry</i> , 2011 , 21, 8381		141
272	Engineering solid-state morphologies in carbazole-ethynylene macrocycles. <i>Journal of the American Chemical Society</i> , 2011 , 133, 14063-70	16.4	63
271	The anatomic pattern of biliary atresia identified at time of Kasai hepatoportoenterostomy and early postoperative clearance of jaundice are significant predictors of transplant-free survival. <i>Annals of Surgery</i> , 2011 , 254, 577-85	7.8	112
270	Visual indication of mechanical damage using core-shell microcapsules. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 4547-51	9.5	48
269	Structure-mechanochemical activity relationships for cyclobutane mechanophores. <i>Journal of the American Chemical Society</i> , 2011 , 133, 18992-8	16.4	134
268	Triggered Release From Polymer Capsules. <i>Macromolecules</i> , 2011 , 44, 5539-5553	5.5	487

267	Programmable chemical gradient patterns by soft grayscale lithography. <i>Small</i> , 2011 , 7, 3350-62	11	7
266	Three-dimensional microvascular fiber-reinforced composites. <i>Advanced Materials</i> , 2011 , 23, 3654-8	24	178
265	Hybrid Materials: Three-Dimensional Microvascular Fiber-Reinforced Composites (Adv. Mater. 32/2011). <i>Advanced Materials</i> , 2011 , 23, 3653-3653	24	1
264	Environmental effects on mechanochemical activation of spiropyran in linear PMMA. <i>Journal of Materials Chemistry</i> , 2011 , 21, 8443		115
263	Covalent ladder formation becomes kinetically trapped beyond four rungs. <i>Chemical Communications</i> , 2011 , 47, 5028-30	5.8	21
262	Characterizing the mechanochemically active domains in gem-dihalocyclopropanated polybutadiene under compression and tension. <i>Journal of Materials Chemistry</i> , 2011 , 21, 8454		78
261	Adhesion promotion via noncovalent interactions in self-healing polymers. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 3072-7	9.5	33
260	Arylene-Ethynylene Macrocycles via Depolymerization-Macrocyclization. <i>Macromolecules</i> , 2011 , 44, 3685-3687	5.5	39
259	Self-healing Polymers and Composites. <i>American Scientist</i> , 2011 , 99, 392	2.7	36
258	Thermoresponsive Microcapsules for Autonomic Lithium-ion Battery Shutdown. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2011 , 17-23	0.3	2
257	Force-induced redistribution of a chemical equilibrium. <i>Journal of the American Chemical Society</i> , 2010 , 132, 16107-11	16.4	213
256	Mechanical reconfiguration of stereoisomers. <i>Journal of the American Chemical Society</i> , 2010 , 132, 3256-76.4	16.4	66
255	Synthesis of Hyperbranched Poly(m-phenylene)s via Suzuki Polycondensation of a Branched AB2 Monomer. <i>Macromolecules</i> , 2010 , 43, 9277-9282	5.5	35
254	Proximity field nanopatterning of azopolymer thin films. <i>Nanotechnology</i> , 2010 , 21, 165301	3.4	13
253	Reversible dispersion and release of carbon nanotubes using foldable oligomers. <i>Journal of the American Chemical Society</i> , 2010 , 132, 14113-7	16.4	93
252	Covalent Grafting of m-Phenylene-Ethynylene Oligomers to Oxide Surfaces. <i>Chemistry of Materials</i> , 2010 , 22, 5319-5327	9.6	2
251	Self-Healing Polymers 2010 ,		8
250	Robust, double-walled microcapsules for self-healing polymeric materials. <i>ACS Applied Materials & Interfaces</i> , 2010 , 2, 1195-9	9.5	173

249	Programmable microcapsules from self-immolative polymers. <i>Journal of the American Chemical Society</i> , 2010 , 132, 10266-8	16.4	172
248	Microencapsulation of a Reactive Liquid-Phase Amine for Self-Healing Epoxy Composites. <i>Macromolecules</i> , 2010 , 43, 1855-1859	5.5	141
247	Masked cyanoacrylates unveiled by mechanical force. <i>Journal of the American Chemical Society</i> , 2010 , 132, 4558-9	16.4	134
246	Restoration of Conductivity with TTF-TCNQ Charge-Transfer Salts. <i>Advanced Functional Materials</i> , 2010 , 20, 1721-1727	15.6	114
245	Functional nanostructured plasmonic materials. <i>Advanced Materials</i> , 2010 , 22, 1102-10	24	104
244	Intrastrand foldamer crosslinking by reductive amination. <i>Journal of Polymer Science Part A</i> , 2010 , 48, 927-935	2.5	11
243	Evaluation of peroxide initiators for radical polymerization-based self-healing applications. <i>Journal of Polymer Science Part A</i> , 2010 , 48, 2698-2708	2.5	55
242	1-Bromo-methyl-4-aza-1-azoniabicyclo-[2.2.2]octane bromide. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2010 , 66, o377		1
241	Force-induced activation of covalent bonds in mechanoresponsive polymeric materials. <i>Nature</i> , 2009 , 459, 68-72	50.4	1211
240	Chemistry goes global in the virtual world. <i>Nature Chemistry</i> , 2009 , 1, 2-4	17.6	9
239	Semi-fused hexaphenyl hexa-peri-hexabenzocoronene: a novel fluorophore from an intramolecular Scholl reaction. <i>Tetrahedron Letters</i> , 2009 , 50, 4071-4077	2	20
238	Zinc chloride-promoted aryl bromide-alkyne cross-coupling reactions at room temperature. <i>Journal of Organic Chemistry</i> , 2009 , 74, 8897-900	4.2	72
237	Cationic comb polymer superdispersants for colloidal silica suspensions. <i>Langmuir</i> , 2009 , 25, 6787-92	4	27
236	Using the Cambridge Structural Database To Teach Molecular Geometry Concepts in Organic Chemistry. <i>Journal of Chemical Education</i> , 2009 , 86, 460	2.4	6
235	Mechanically-induced chemical changes in polymeric materials. <i>Chemical Reviews</i> , 2009 , 109, 5755-98	68.1	969
234	Microcapsules containing suspensions of carbon nanotubes. <i>Journal of Materials Chemistry</i> , 2009 , 19, 6093		87
233	Multiphoton writing of three-dimensional fluidic channels within a porous matrix. <i>Journal of the American Chemical Society</i> , 2009 , 131, 11294-5	16.4	28
232	Expedient fabrication of well-defined nanofibres from a macrocycle molecule: Solution-controlled self-assembly. <i>Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanoengineering and Nanosystems</i> , 2009 , 223, 139-147		1

231	Evaluation of Ruthenium Catalysts for Ring-Opening Metathesis Polymerization-Based Self-Healing Applications. <i>Chemistry of Materials</i> , 2008 , 20, 3288-3297	9.6	125
230	A new self-healing epoxy with tungsten (VI) chloride catalyst. <i>Journal of the Royal Society Interface</i> , 2008 , 5, 95-103	4.1	127
229	Solvent-free synthesis of Janus colloidal particles. <i>Langmuir</i> , 2008 , 24, 10073-7	4	113
228	Iterative synthesis of 1,3,5-polyphenylene dendrons via C-H activation. <i>Organic Letters</i> , 2008 , 10, 4851-4	6.2	32
227	Sequence dependence of methylation rate enhancement in meta-phenyleneethynylene foldamers. <i>Chemical Communications</i> , 2008 , 1011-3	5.8	19
226	Synthetic applications with use of a silica-supported alkyne metathesis catalyst. <i>Journal of Organic Chemistry</i> , 2008 , 73, 4256-8	4.2	33
225	Chemistry. Synchronized self-assembly. <i>Science</i> , 2008 , 320, 620-1	33.3	50
224	Synthesis of linked carbon monolayers: films, balloons, tubes, and pleated sheets. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 7353-8	11.5	50
223	Autonomic Healing of Polymers. <i>MRS Bulletin</i> , 2008 , 33, 766-769	3.2	58
222	Highly responsive fluorescent sensing of explosives taggant with an organic nanofibril film. <i>Sensors and Actuators B: Chemical</i> , 2008 , 134, 287-291	8.5	48
221	3-D analysis of semiconductor dopant distributions in a patterned structure using LEAP. <i>Ultramicroscopy</i> , 2008 , 108, 536-9	3.1	16
220	Reactive sieving with foldamers: inspiration from nature and directions for the future. <i>Chemistry - A European Journal</i> , 2008 , 14, 2650-7	4.8	98
219	Autonomic Healing of Epoxy Vinyl Esters via Ring Opening Metathesis Polymerization. <i>Advanced Functional Materials</i> , 2008 , 18, 44-52	15.6	135
218	Full Recovery of Fracture Toughness Using a Nontoxic Solvent-Based Self-Healing System. <i>Advanced Functional Materials</i> , 2008 , 18, 1898-1904	15.6	218
217	Preparation of enediyne-crosslinked networks and their reactivity under thermal and mechanical conditions. <i>Tetrahedron</i> , 2008 , 64, 8435-8448	2.4	27
216	One-dimensional self-assembly of planar pi-conjugated molecules: adaptable building blocks for organic nanodevices. <i>Accounts of Chemical Research</i> , 2008 , 41, 1596-608	24.3	1054
215	Solution-phase structure of an artificial foldamer: X-ray scattering study. <i>Journal of the American Chemical Society</i> , 2007 , 129, 4114-5	16.4	19
214	Covalent assembly of molecular ladders. <i>Journal of the American Chemical Society</i> , 2007 , 129, 4512-3	16.4	66

213	Performance characterization of nanofiltration membranes based on rigid star amphiphiles. <i>Environmental Science & Technology</i> , 2007 , 41, 6246-52	10.3	23
212	Optical transduction of chemical forces. <i>Nano Letters</i> , 2007 , 7, 733-7	11.5	44
211	Light-Induced Shape Changes in Azobenzene Functionalized Polymers Prepared by Ring-Opening Metathesis Polymerization. <i>Macromolecules</i> , 2007 , 40, 1838-1842	5.5	50
210	Self-healing kinetics and the stereoisomers of dicyclopentadiene. <i>Journal of the Royal Society Interface</i> , 2007 , 4, 389-93	4.1	96
209	Life extension of self-healing polymers with rapidly growing fatigue cracks. <i>Journal of the Royal Society Interface</i> , 2007 , 4, 395-403	4.1	147
208	Self-healing materials with microvascular networks. <i>Nature Materials</i> , 2007 , 6, 581-5	27	1198
207	Biasing reaction pathways with mechanical force. <i>Nature</i> , 2007 , 446, 423-7	50.4	611
206	Self Healing Polymers and Composites. <i>Springer Series in Materials Science</i> , 2007 , 19-44	0.9	18
205	Mechanophore-linked addition polymers. <i>Journal of the American Chemical Society</i> , 2007 , 129, 13808-9	16.4	296
204	Foldamers as reactive sieves: reactivity as a probe of conformational flexibility. <i>Journal of the American Chemical Society</i> , 2007 , 129, 5444-50	16.4	70
203	"Click" modification of silica surfaces and glass microfluidic channels. <i>Analytical Chemistry</i> , 2007 , 79, 1661-8	16.4	120
202	Nanofiltration Membranes Based on Rigid Star Amphiphiles. <i>Chemistry of Materials</i> , 2007 , 19, 3194-3204	9.6	61
201	Solvent-Promoted Self-Healing Epoxy Materials. <i>Macromolecules</i> , 2007 , 40, 8830-8832	5.5	245
200	Programmed dynamic covalent assembly of unsymmetrical macrocycles. <i>Journal of the American Chemical Society</i> , 2007 , 129, 11682-3	16.4	60
199	Detection of explosives with a fluorescent nanofibril film. <i>Journal of the American Chemical Society</i> , 2007 , 129, 6978-9	16.4	362
198	Preparation of a Trisamidomolybdenum(VI) Propylidyne Complex [A Highly Active Catalyst Precursor For Alkyne Metathesis 2007 , 163-176		7
197	Preparation of a Carbazole-Based Macrocycle Via Precipitation-Driven Alkyne Metathesis 2007 , 177-191		1
196	A highly active, heterogeneous catalyst for alkyne metathesis. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 585-8	16.4	65

195	Shape-persistent macrocycles: structures and synthetic approaches from arylene and ethynylene building blocks. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 4416-39	16.4	464
194	A Highly Active, Heterogeneous Catalyst for Alkyne Metathesis. <i>Angewandte Chemie</i> , 2006 , 118, 599-602	3.6	23
193	Formtreue Makrocyclen: Strukturen und Synthesen aus Arylen- und Ethynylen-Bausteinen. <i>Angewandte Chemie</i> , 2006 , 118, 4524-4548	3.6	121
192	PNIPAM chain collapse depends on the molecular weight and grafting density. <i>Langmuir</i> , 2006 , 22, 4259-66	4.6	339
191	Synthesis and aggregation behavior of thermally responsive star polymers. <i>Langmuir</i> , 2006 , 22, 6352-60	4	49
190	Catalyst Morphology and Dissolution Kinetics of Self-Healing Polymers. <i>Chemistry of Materials</i> , 2006 , 18, 1312-1317	9.6	176
189	A Mo(VI) alkylidyne complex with polyhedral oligomeric silsesquioxane ligands: homogeneous analogue of a silica-supported alkyne metathesis catalyst. <i>Journal of the American Chemical Society</i> , 2006 , 128, 14742-3	16.4	74
188	Cooperative Self-Assembly of Oligo(m-phenyleneethynylenes) into Supramolecular Coordination Polymers. <i>Macromolecules</i> , 2006 , 39, 7269-7276	5.5	52
187	Nanofibril self-assembly of an arylene ethynylene macrocycle. <i>Journal of the American Chemical Society</i> , 2006 , 128, 6576-7	16.4	172
186	Solid-phase synthesis of m-phenylene ethynylene heterosequence oligomers. <i>Journal of Organic Chemistry</i> , 2006 , 71, 5282-90	4.2	49
185	The chain-length dependence test. <i>Accounts of Chemical Research</i> , 2006 , 39, 11-20	24.3	164
184	Water-vapor plasma-based surface activation for trichlorosilane modification of PMMA. <i>Langmuir</i> , 2006 , 22, 4104-9	4	62
183	Reaction pathways leading to arylene ethynylene macrocycles via alkyne metathesis. <i>Journal of the American Chemical Society</i> , 2005 , 127, 11863-70	16.4	117
182	Ultrasound-Induced Site-Specific Cleavage of Azo-Functionalized Poly(ethylene glycol). <i>Macromolecules</i> , 2005 , 38, 8975-8978	5.5	182
181	Sequence-specific binding of m-phenylene ethynylene foldamers to a piperazinium dihydrochloride salt. <i>Organic Letters</i> , 2005 , 7, 1683-6	6.2	40
180	Supramolecular chelation based on folding. <i>Journal of the American Chemical Society</i> , 2005 , 127, 5928-35	16.4	58
179	A high-yield, one-step synthesis of o-phenylene ethynylene cyclic trimer via precipitation-driven alkyne metathesis. <i>Journal of Organic Chemistry</i> , 2005 , 70, 10198-201	4.2	63
178	Chymotrypsin responsive hydrogel: application of a disulfide exchange protocol for the preparation of methacrylamide containing peptides. <i>Biomacromolecules</i> , 2005 , 6, 632-7	6.9	128

177	Polymerizations Initiated by Diradicals from Cycloaromatization Reactions. <i>Macromolecules</i> , 2005 , 38, 7266-7273	5.5	24
176	Light-regulated electrostatic interactions in colloidal suspensions. <i>Journal of the American Chemical Society</i> , 2005 , 127, 14574-5	16.4	47
175	Introduction to Photolithography: Preparation of Microscale Polymer Silhouettes. <i>Journal of Chemical Education</i> , 2005 , 82, 1365	2.4	31
174	Wax-Protected Catalyst Microspheres for Efficient Self-Healing Materials. <i>Advanced Materials</i> , 2005 , 17, 205-208	24	332
173	A novel indicator series for measuring pKa values in acetonitrile. <i>Tetrahedron</i> , 2004 , 60, 7287-7292	2.4	7
172	Synthesis of Poly(2,5-thienyleneethynylene)s by Alkyne Metathesis. <i>Macromolecules</i> , 2004 , 37, 3973-3975	5.5	47
171	Enhanced methylation rate within a foldable molecular receptor. <i>Journal of Organic Chemistry</i> , 2004 , 69, 9234-7	4.2	30
170	A water-soluble m-phenylene ethynylene foldamer. <i>Organic Letters</i> , 2004 , 6, 469-72	6.2	97
169	Folding-promoted methylation of a helical DMAP analogue. <i>Journal of the American Chemical Society</i> , 2004 , 126, 1648-9	16.4	58
168	Patterned dual pH-responsive core-shell hydrogels with controllable swelling kinetics and volumes. <i>Langmuir</i> , 2004 , 20, 6535-7	4	44
167	Single-site modifications and their effect on the folding stability of m-phenylene ethynylene oligomers. <i>Organic Letters</i> , 2004 , 6, 889-92	6.2	38
166	Pyridine-containing m-phenylene ethynylene oligomers having tunable basicities. <i>Organic Letters</i> , 2004 , 6, 659-62	6.2	30
165	Multitechnique characterization of fatty acid-modified microgels. <i>Langmuir</i> , 2004 , 20, 1111-9	4	6
164	Helix stabilization through pyridinium- π interactions. <i>Chemical Communications</i> , 2004 , 1480-1	5.8	31
163	Arylene ethynylene macrocycles prepared by precipitation-driven alkyne metathesis. <i>Journal of the American Chemical Society</i> , 2004 , 126, 12796	16.4	146
162	A helicene-containing foldamer displaying highly solvent-dependent CD spectra. <i>Organic Letters</i> , 2004 , 6, 3317-20	6.2	51
161	Highly active trialkoxymolybdenum(VI) alkylidyne catalysts synthesized by a reductive recycle strategy. <i>Journal of the American Chemical Society</i> , 2004 , 126, 329-35	16.4	130
160	Fatty acid-modified microgels: transmission electron microscopy study. <i>Surface and Interface Analysis</i> , 2003 , 35, 1065-1068	1.5	

159	Nucleation-elongation polymerization under imbalanced stoichiometry. <i>Journal of the American Chemical Society</i> , 2003 , 125, 16294-9	16.4	59
158	Pressure-Sensitive Microfluidic Gates Fabricated by Patterning Surface Free Energies Inside Microchannels <i>Langmuir</i> , 2003 , 19, 1873-1879	4	34
157	m-Phenylene ethynylene sequences joined by imine linkages: dynamic covalent oligomers. <i>Journal of Organic Chemistry</i> , 2003 , 68, 8397-403	4.2	32
156	Radical polymerization initiated by Bergman cyclization. <i>Journal of the American Chemical Society</i> , 2003 , 125, 12992-3	16.4	34
155	n-Alkyl Fatty Acid-Modified Microgels: Ion Permeation as a Function of Chain Length. <i>Langmuir</i> , 2003 , 19, 910-915	4	12
154	Swelling Kinetics of Disulfide Cross-Linked Microgels. <i>Macromolecules</i> , 2003 , 36, 3960-3966	5.5	61
153	Surface-Modified Hydrogels for Chemoselective Bioconjugation. <i>Macromolecules</i> , 2003 , 36, 8846-8852	5.5	6
152	Nucleation-elongation: a mechanism for cooperative supramolecular polymerization. <i>Organic and Biomolecular Chemistry</i> , 2003 , 1, 3471-91	3.9	361
151	Shape-persistent arylene ethynylene macrocycles: syntheses and supramolecular chemistry. <i>Chemical Communications</i> , 2003 , 807-18	5.8	291
150	A reductive recycle strategy for the facile synthesis of molybdenum(VI) alkylidyne catalysts for alkyne metathesis. <i>Chemical Communications</i> , 2003 , 832-3	5.8	96
149	Folding-Driven Reversible Polymerization of Oligo(m-phenylene ethynylene) Imines: Solvent and Starter Sequence Studies. <i>Macromolecules</i> , 2003 , 36, 2712-2720	5.5	45
148	Mathematical Modeling and Simulation of Dissolvable Hydrogels. <i>Journal of Aerospace Engineering</i> , 2003 , 16, 55-64	1.4	19
147	Synthesis and characterization of end-group modified hyperbranched polyetherimides. <i>Journal of Polymer Science Part A</i> , 2002 , 40, 936-946	2.5	33
146	The influence of alkyl end-groups on the miscibility of hyperbranched polymers with polyolefins. <i>Polymer Engineering and Science</i> , 2002 , 42, 2393-2400	2.3	5
145	Adsorption of cobalt phthalocyanine on Si(100)2 \times 1 and Si(100)2 \times 1:H surfaces studied by scanning tunneling microscopy and spectroscopy. <i>Surface Science</i> , 2002 , 516, 118-126	1.8	18
144	The size-selective synthesis of folded oligomers by dynamic templation. <i>Journal of the American Chemical Society</i> , 2002 , 124, 5934-5	16.4	116
143	Helicogenicity of solvents in the conformational equilibrium of oligo(m-phenylene ethynylene)s: implications for foldamer research. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 5053-7	11.5	116
142	Role of End-Group Functionality on the Surface Segregation Properties of HBPs in Blends with Polystyrene: Application of HBPs as Dewetting Inhibitors. <i>Langmuir</i> , 2002 , 18, 9985-9989	4	26

141	Reversible polymerization driven by folding. <i>Journal of the American Chemical Society</i> , 2002 , 124, 9996-716.4	80
140	Control and applications of immiscible liquids in microchannels. <i>Journal of the American Chemical Society</i> , 2002 , 124, 5284-5	16.4 112
139	Principles of surface-directed liquid flow in microfluidic channels. <i>Analytical Chemistry</i> , 2002 , 74, 4259-687.8	133
138	Roles of Molecular Architecture and End-Group Functionality on the Surface Properties of Branched Polymers. <i>Langmuir</i> , 2002 , 18, 9990-9995	4 18
137	Helical pitch of m-phenylene ethynylene foldamers by double spin labeling. <i>Journal of the American Chemical Society</i> , 2002 , 124, 11836-7	16.4 80
136	Molecular packing and morphology of oligo(m-phenylene ethynylene) foldamers. <i>Journal of the American Chemical Society</i> , 2002 , 124, 8605-10	16.4 41
135	Indirect Method for Determining Degree of Branching in Hyperbranched Polymers. <i>Macromolecules</i> , 2002 , 35, 1599-1603	5.5 24
134	ROMP Reactivity ofendo- andexo-Dicyclopentadiene. <i>Macromolecules</i> , 2002 , 35, 7878-7882	5.5 198
133	Synthesis and self-association of an imine-containing m-phenylene ethynylene macrocycle. <i>Journal of Organic Chemistry</i> , 2002 , 67, 3548-54	4.2 90
132	Hydrogen bond-stabilized helix formation of a m-phenylene ethynylene oligomer. <i>Organic Letters</i> , 2002 , 4, 4663-6	6.2 70
131	Surface Modification of Microgels with N-Alkyl Fatty Acid Layers: Ion Gradient Properties 2002 , 428-430	
130	Dissolvable and Asymmetric Hydrogels as Components for Microfluidic Systems 2002 , 712-714	2
129	Active control of electroosmotic flow in microchannels using light. <i>Sensors and Actuators B: Chemical</i> , 2001 , 75, 223-229	8.5 44
128	Effect of pressure on the luminescence of a series of methoxy phenylacetylene dendrimers neat and in dilute solution in solid poly(tert-butyl methacrylate). <i>Journal of Polymer Science Part A</i> , 2001 , 39, 2859-2865	2.5 4
127	Cooperativity in the folding of helical m-phenylene ethynylene oligomers based upon the 'sergeants-and-soldiers' principle. <i>Chemistry - A European Journal</i> , 2001 , 7, 4150-4	4.8 103
126	A field guide to foldamers. <i>Chemical Reviews</i> , 2001 , 101, 3893-4012	68.1 2004
125	Folding-driven synthesis of oligomers. <i>Nature</i> , 2001 , 414, 889-93	50.4 148
124	Autonomic healing of polymer composites. <i>Nature</i> , 2001 , 409, 794-7	50.4 3147

123	Responsive biomimetic hydrogel valve for microfluidics. <i>Applied Physics Letters</i> , 2001 , 78, 2589-2591	3.4	202
122	Atomic-level study of the robustness of the Si(100)-2 \times 1:H surface following exposure to ambient conditions. <i>Applied Physics Letters</i> , 2001 , 78, 886-888	3.4	42
121	Fast pH- and Ionic Strength-Responsive Hydrogels in Microchannels. <i>Langmuir</i> , 2001 , 17, 4758-4763	4	163
120	Surface-directed liquid flow inside microchannels. <i>Science</i> , 2001 , 291, 1023-6	33.3	635
119	Effect of branching on the rheological properties of solutions of aromatic etherimide copolymers. <i>Journal of Rheology</i> , 2001 , 45, 1245-1258	4.1	16
118	An organic self-regulating microfluidic system. <i>Lab on A Chip</i> , 2001 , 1, 96-9	7.2	72
117	Surfactant-induced lysis of lipid-modified microgels. <i>Journal of the American Chemical Society</i> , 2001 , 123, 12921-2	16.4	16
116	The Effect of Pressure on the Conformation of Two Sets of m-Phenylene Ethynylene Oligomers in PMMA and PtBMA. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 3300-3305	3.4	6
115	Effect of Pressure on the Conformation of Two Oligo (m-Phenylene Ethynylene) Foldamers Containing a Piperazine or Terpene Derivative as Guest. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 12374-12377	2.4	7
114	Self-assembly of folded m-phenylene ethynylene oligomers into helical columns. <i>Journal of the American Chemical Society</i> , 2001 , 123, 7978-84	16.4	227
113	Effect of Linear Sequence Length on the Properties of Branched Aromatic Etherimide Copolymers. <i>Macromolecules</i> , 2001 , 34, 2695-2701	5.5	55
112	Effect of Pressure on the Emission Efficiencies of a Series of Phenylacetylene Dendrimers. <i>Macromolecules</i> , 2001 , 34, 4606-4609	5.5	9
111	Eliminating Variations in Elemental Composition in Studies on the Physical Properties of Linear to Hyperbranched Etherimide Copolymers. <i>Macromolecules</i> , 2001 , 34, 8811-8813	5.5	17
110	Chain length-dependent affinity of helical foldamers for a rodlike guest. <i>Journal of the American Chemical Society</i> , 2001 , 123, 1792-3	16.4	192
109	Regulation of pH in a Microfluidic Stream 2001 , 486-488		1
108	Studies of Temperature-Dependent Excimer-Monomer Conversion in Dendrimeric Antenna Supermolecules by Fluorescence Spectroscopy. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 651, 1		
107	Twist Sense Bias Induced by Chiral Side Chains in Helically Folded Oligomers. <i>Angewandte Chemie - International Edition</i> , 2000 , 39, 228-230	16.4	203
106	Synthesis and characterization of PEE-PEO diblock copolymers with complementary end-groups for hydrogen-bond heteroassociation. <i>Journal of Polymer Science Part A</i> , 2000 , 38, 207-219	2.5	12

105	Functional hydrogel structures for autonomous flow control inside microfluidic channels. <i>Nature</i> , 2000 , 404, 588-90	50.4	1622
104	Microfluidic tectonics: a comprehensive construction platform for microfluidic systems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000 , 97, 13488-93	11.5	305
103	Novel polymers: molecular to nanoscale order in three dimensions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000 , 97, 11147-8	11.5	14
102	Foldamer-Based Molecular Recognition. <i>Journal of the American Chemical Society</i> , 2000 , 122, 2758-2762	16.4	300
101	Correlated Excimer Formation and Molecular Rotational Dynamics in Phenylacetylene Dendrimers \square <i>Journal of Physical Chemistry B</i> , 2000 , 104, 3988-3995	3.4	55
100	Synthesis and characterization of monodendrons based on 9-phenylcarbazole. <i>Journal of Organic Chemistry</i> , 2000 , 65, 116-23	4.2	89
99	Solvophobicity Driven π -Stacking of Phenylene Ethynylene Macrocycles and Oligomers. <i>Journal of the American Chemical Society</i> , 2000 , 122, 11315-11319	16.4	256
98	Synthesis and Characterization of 9-Phenylcarbazole Monodendrons: \square An Exploration of Peripheral Groups To Facilitate Purification. <i>Macromolecules</i> , 2000 , 33, 801-807	5.5	31
97	Transition from Exponential to Nonexponential Kinetics during Formation of a Nonbiological Helix. <i>Journal of the American Chemical Society</i> , 2000 , 122, 3248-3249	16.4	50
96	Controlled Synthesis of Hyperbranched Polymers by Slow Monomer Addition to a Core. <i>Macromolecules</i> , 2000 , 33, 3212-3218	5.5	139
95	"Masterpiece" copolymer sequences by targeted equilibrium-shifting. <i>Organic Letters</i> , 2000 , 2, 915-8	6.2	46
94	Helical twist sense bias in oligo(phenylene ethynylene)s induced by an optically active flexible tether. <i>Organic Letters</i> , 2000 , 2, 135-8	6.2	40
93	Synthesis and Characterization of Linear Dendritic Aromatic Etherimide Copolymers: \square Tuning Molecular Architecture To Optimize Properties and Processability. <i>Macromolecules</i> , 2000 , 33, 5315-5317	5.5	37
92	Conformational ordering of apolar, chiral m-phenylene ethynylene oligomers. <i>Organic Letters</i> , 2000 , 2, 1525-8	6.2	57
91	Hexagonal Packing of Oligo(m-phenylene ethynylene)s in the Solid State: Helical Nanotubules. <i>Journal of the American Chemical Society</i> , 2000 , 122, 6134-6135	16.4	52
90	Synthesis and Characterization of Hyperbranched Aromatic Poly(ether imide)s with Varying Degrees of Branching. <i>Macromolecules</i> , 2000 , 33, 6412-6415	5.5	55
89	In-Channel Processing to Create Autonomous Hydrogel Microvalves 2000 , 45-48		4
88	Rapid synthesis of etherimides via catalytic arylation of silylated phenols. <i>Tetrahedron Letters</i> , 1999 , 40, 631-634	2	5

87	Supramolecular polymers. <i>Current Opinion in Colloid and Interface Science</i> , 1999 , 4, 108-116	7.6	111
86	Kontrolle der Sekundärstruktur synthetischer Oligomere durch solvophobe und koordinative Wechselwirkungen. <i>Angewandte Chemie</i> , 1999 , 111, 245-249	3.6	41
85	Controlling the Secondary Structure of Nonbiological Oligomers with Solvophobic and Coordination Interactions. <i>Angewandte Chemie - International Edition</i> , 1999 , 38, 233-236	16.4	136
84	Rapid Synthesis of Hyperbranched Aromatic Polyetherimides. <i>Macromolecules</i> , 1999 , 32, 4764-4768	5.5	69
83	Helical Bias in Solvophobicity of Folded Oligo(Phenylene Ethynylene)s. <i>Journal of the American Chemical Society</i> , 1999 , 121, 2643-2644	16.4	116
82	Structure of a Phenylacetylene Macrocycle at the Air/Water Interface. <i>Langmuir</i> , 1999 , 15, 6897-6900	4	13
81	Supramolecular Organization of Oligo(m-phenylene ethynylene)s in the Solid-State. <i>Journal of the American Chemical Society</i> , 1999 , 121, 5933-5939	16.4	53
80	Cooperative Conformational Transitions in Phenylene Ethynylene Oligomers: Chain-Length Dependence. <i>Journal of the American Chemical Society</i> , 1999 , 121, 3114-3121	16.4	320
79	Controlling the Secondary Structure of Nonbiological Oligomers with Solvophobic and Coordination Interactions 1999 , 38, 233		1
78	High Resolution X-ray Diffraction Study of a Tubular Liquid Crystal. <i>Advanced Materials</i> , 1998 , 10, 1363-1366	16.4	81
77	Molecular Nano-Lenses: Directed Energy Migration and Back-Transfer in Dendrimeric Antenna Supermolecules. <i>Molecular Crystals and Liquid Crystals</i> , 1998 , 314, 37-46		1
76	Analysis of Amidinium Guest Complexation by Comparison of Two Classes of Dendrimer Hosts Containing a Hydrogen Bonding Unit at the Core. <i>Journal of the American Chemical Society</i> , 1998 , 120, 2172-2173	16.4	75
75	Photoinduced Electron Transfer in Dendritic Macromolecules. 1. Intermolecular Electron Transfer. <i>Macromolecules</i> , 1998 , 31, 8091-8099	5.5	34
74	Energy Transfer in Organic Dendrimer Antenna Funnel and Anti-Funnel Supermolecules. <i>Materials Research Society Symposia Proceedings</i> , 1998 , 543, 311		
73	High Resolution X-ray Diffraction Study of a Tubular Liquid Crystal 1998 , 10, 1363		3
72	Spectroscopic Evidence for Excitonic Localization in Fractal Antenna Supermolecules. <i>Physical Review Letters</i> , 1997 , 78, 1239-1242	7.4	268
71	Nanopatterning organic monolayers on Si(100) by selective chemisorption of norbornadiene. <i>Applied Physics Letters</i> , 1997 , 70, 2747-2749	3.4	44
70	Synthesis and Characterization of Water-Soluble Dendritic Macromolecules with a Stiff, Hydrocarbon Interior. <i>Macromolecules</i> , 1997 , 30, 6467-6482	5.5	53

69	Solid-Supported Hyperbranched Polymerization: Evidence for Self-Limited Growth. <i>Journal of the American Chemical Society</i> , 1997 , 119, 3391-3392	16.4	104
68	Coordination Networks of 3,3'-Dicyanodiphenylacetylene and Silver(I) Salts: Structural Diversity through Changes in Ligand Conformation and Counterion. <i>Inorganic Chemistry</i> , 1997 , 36, 2960-2968	5.1	234
67	Directed Energy Transfer Funnel in Dendrimeric Antenna Supermolecules. <i>Journal of Physical Chemistry B</i> , 1997 , 101, 6318-6322	3.4	257
66	Shape-Persistent Molecular Architectures of Nanoscale Dimension. <i>Accounts of Chemical Research</i> , 1997 , 30, 402-413	24.3	557
65	Solvophobic driven folding of nonbiological oligomers. <i>Science</i> , 1997 , 277, 1793-6	33.3	739
64	Association of Dicyanodiphenylacetylenes with Silver(I) Salts in Solution and Solid State: Electrospray Ionization Mass Spectrometry Samples Aggregates at Subsaturated Concentrations. <i>Journal of the American Chemical Society</i> , 1997 , 119, 10401-10412	16.4	52
63	A Coordination Geometry Table of the d-Block Elements and Their Ions. <i>Journal of Chemical Education</i> , 1997 , 74, 915	2.4	122
62	Polar domains on globular macromolecules: Shape-persistent, amphiphilic tridendrons. <i>Tetrahedron</i> , 1997 , 53, 15331-15347	2.4	21
61	Anomalous Shift in the Fluorescence Spectra of a High-Generation Dendrimer in Nonpolar Solvents. <i>Angewandte Chemie International Edition in English</i> , 1997 , 36, 1633-1635		54
60	Columnar Liquid Crystals from Shape-Persistent Dendritic Molecules. <i>Angewandte Chemie International Edition in English</i> , 1997 , 36, 1636-1639		104
59	A Packing Model for Interpenetrated Diamondoid Structures—An Interpretation Based on the Constructive Interference of Supramolecular Networks. <i>Chemistry - A European Journal</i> , 1997 , 3, 765-774 ^{4.8}		182
58	Assembly of Amphiphilic Phenylacetylene Macrocycles at the Air/Water Interface and on Solid Surfaces. <i>Journal of the American Chemical Society</i> , 1996 , 118, 9409-9414	16.4	50
57	Coordination Networks Based on Multitopic Ligands and Silver(I) Salts: A Study of Network Connectivity and Topology as a Function of Counterion. <i>Chemistry of Materials</i> , 1996 , 8, 2030-2040	9.6	168
56	Energy Transfer in Dendritic Macromolecules: Molecular Size Effects and the Role of an Energy Gradient. <i>Journal of the American Chemical Society</i> , 1996 , 118, 9635-9644	16.4	610
55	Aromatic π -Stacking in Solution as Revealed through the Aggregation of Phenylacetylene Macrocycles. <i>Journal of the American Chemical Society</i> , 1996 , 118, 1019-1027	16.4	390
54	Molecular architecture and supramolecular chemistry. <i>Current Opinion in Solid State and Materials Science</i> , 1996 , 1, 777-788	12	26
53	Dendrimer-Metalloporphyrins: Synthesis and Catalysis. <i>Journal of the American Chemical Society</i> , 1996 , 118, 5708-5711	16.4	344
52	Electroluminescent diodes from a single component emitting layer of dendritic macromolecules. <i>Advanced Materials</i> , 1996 , 8, 237-241	24	243

51	Ein zusammenklappbarer Makrotricyclus mit einem molekularen Hohlraum. <i>Angewandte Chemie</i> , 1996 , 108, 320-322	3.6	4
50	A Freely Hinged Macrotricycle with a Molecular Cavity. <i>Angewandte Chemie International Edition in English</i> , 1996 , 35, 297-299		30
49	Shape selective epoxidation of alkenes by metalloporphyrin-dendrimers. <i>Journal of Molecular Catalysis A</i> , 1996 , 113, 109-116		101
48	Solid-Phase Synthesis of Phenylacetylene Oligomers Utilizing a Novel 3-Propyl-3-(benzyl-supported) Triazene Linkage. <i>Journal of Organic Chemistry</i> , 1996 , 61, 8160-8168	4.2	93
47	Spontaneous assembly of a hinged coordination network. <i>Nature</i> , 1995 , 374, 792-795	50.4	722
46	Design and synthesis of molecular turnstiles.. <i>Journal of the American Chemical Society</i> , 1995 , 117, 10662-10671	16.4	278
45	Zeolite-like Behavior of a Coordination Network. <i>Journal of the American Chemical Society</i> , 1995 , 117, 11600-11601	16.4	299
44	Improvements in the Synthesis of Phenylacetylene Monodendrons Including a Solid-Phase Convergent Method. <i>Macromolecules</i> , 1995 , 28, 5955-5963	5.5	79
43	Double Exponential Dendrimer Growth. <i>Journal of the American Chemical Society</i> , 1995 , 117, 2159-2165	16.4	210
42	Geometrically-Controlled and Site-Specifically-Functionalized Phenylacetylene Macrocycles. <i>Journal of the American Chemical Society</i> , 1994 , 116, 4227-4239	16.4	171
41	Iodine-promoted decomposition of 1-aryl-3,3-dialkyltriazenes: A mild method for the synthesis of aryl iodides. <i>Tetrahedron Letters</i> , 1994 , 35, 5539-5542	2	36
40	Crosslinking chemistry for high-performance polymer networks. <i>Polymer</i> , 1994 , 35, 5012-5017	3.9	23
39	Analysis of hydrocarbon dendrimers by laser desorption time-of-flight and fourier transform mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 1994 , 5, 731-9	3.5	48
38	An organic solid with wide channels based on hydrogen bonding between macrocycles. <i>Nature</i> , 1994 , 371, 591-593	50.4	271
37	Reactivity of Disubstituted Benzocyclobutenes. Model Compounds of Cross-Linkable High-Performance Polymers. <i>Macromolecules</i> , 1994 , 27, 2647-2657	5.5	31
36	Nanoarchitectures. 6. Liquid Crystals Based on Shape-Persistent Macrocyclic Mesogens.. <i>Journal of the American Chemical Society</i> , 1994 , 116, 2655-2656	16.4	140
35	Phenylacetylene Dendrimers by the Divergent, Convergent, and Double-Stage Convergent Methods. <i>Journal of the American Chemical Society</i> , 1994 , 116, 4537-4550	16.4	206
34	Synthesis of Sequence Specific Phenylacetylene Oligomers on an Insoluble Solid Support. <i>Journal of the American Chemical Society</i> , 1994 , 116, 10841-10842	16.4	84

33	Structural Characterization of Ordered Phases in Hydrocarbon Dendrimers. <i>Materials Research Society Symposia Proceedings</i> , 1994 , 351, 413		
32	Modular construction for the programmed assembly of molecular crystals and liquid crystals. <i>Macromolecular Symposia</i> , 1994 , 77, 295-301	0.8	6
31	A new polymerization reaction for the synthesis of aromatic polyketones. <i>Macromolecules</i> , 1993 , 26, 2535-2541	5.5	17
30	Cross-linkable copolymers of poly(p-phenyleneterephthalamide). <i>Chemistry of Materials</i> , 1993 , 5, 248-250.6		23
29	Processible poly(arylene ether ketones) that can be crosslinked to high-performance networks. <i>Macromolecules</i> , 1993 , 26, 3713-3716	5.5	36
28	Synthesis and Characterization of a High Molecular Weight Stiff Dendrimer. <i>Angewandte Chemie International Edition in English</i> , 1993 , 32, 246-248		90
27	Rapid Construction of Large-size Phenylacetylene Dendrimers up to 12.5 Nanometers in Molecular Diameter. <i>Angewandte Chemie International Edition in English</i> , 1993 , 32, 1354-1357		152
26	Nanoarchitectures. 3. Aggregation of hexa(phenylacetylene) macrocycles in solution: a model system for studying π - π interactions. <i>Journal of the American Chemical Society</i> , 1992 , 114, 9701-9702	16.4	122
25	Synthesis of three-dimensional nanoscaffolding. <i>Journal of the American Chemical Society</i> , 1992 , 114, 8730-8732	16.4	76
24	Materials chemistry of chiral macromolecules. 1. Synthesis and phase transitions. <i>Journal of the American Chemical Society</i> , 1992 , 114, 3429-3441	16.4	18
23	Nanoarchitectures. 1. Controlled synthesis of phenylacetylene sequences. <i>Journal of the American Chemical Society</i> , 1992 , 114, 2273-2274	16.4	115
22	Efficient Synthesis of Nanoscale Macrocyclic Hydrocarbons. <i>Angewandte Chemie International Edition in English</i> , 1992 , 31, 922-924		90
21	Poly(aryl ketones) via palladium-catalyzed cross-coupling. <i>Die Makromolekulare Chemie Rapid Communications</i> , 1992 , 13, 91-96		21
20	Effiziente Synthese makrocyclischer Kohlenwasserstoffe mit Durchmessern im Nanometerbereich. <i>Angewandte Chemie</i> , 1992 , 104, 873-874	3.6	17
19	A convenient masking group for aryl iodides. <i>Tetrahedron Letters</i> , 1991 , 32, 2465-2466	2	99
18	Synthesis of rigid dendritic macromolecules: enlarging the repeat unit size as a function of generation, permitting growth to continue. <i>Macromolecules</i> , 1991 , 24, 5893-5894	5.5	88
17	Soluble, chiral polyacetylenes: syntheses and investigation of their solution conformation. <i>Journal of the American Chemical Society</i> , 1991 , 113, 1704-1712	16.4	137
16	Molecular organization in nematic polymers. 2. Evolution of the mesophase. <i>Macromolecules</i> , 1991 , 24, 6408-6412	5.5	3

15	Molecular organization in nematic polymers. 1. Biphasic structures vs the nematic phase. <i>Macromolecules</i> , 1991 , 24, 6399-6407	5.5	5
14	Cleavage of aldehyde hydrazonium iodides under mild conditions. A convenient route to chiral nitriles of high enantiomeric purity. <i>Journal of Organic Chemistry</i> , 1990 , 55, 3374-3377	4.2	16
13	Room temperature polyesterification. <i>Macromolecules</i> , 1990 , 23, 65-70	5.5	474
12	Synthesis of a chemically ordered liquid-crystal polymer. <i>Macromolecules</i> , 1988 , 21, 1217-1221	5.5	30
11	Chemical disorder and phase separation: a study of two liquid-crystal polymers. <i>Macromolecules</i> , 1988 , 21, 1228-1234	5.5	34
10	Monte Carlo Simulation of Ion Implantation in Crystalline Silicon Using Marlowe. <i>Journal of the Electrochemical Society</i> , 1988 , 135, 2034-2038	3.9	14
9	Orientation dynamics of main-chain liquid crystal polymers. 1. Synthesis and characterization of the mesogen. <i>Macromolecules</i> , 1987 , 20, 273-281	5.5	30
8	Orientation dynamics of main-chain liquid crystal polymers. 2. Structure and kinetics in a magnetic field. <i>Macromolecules</i> , 1987 , 20, 282-293	5.5	85
7	Charge-transfer and thermochromic phenomena in solid polyelectrolytes. <i>Macromolecules</i> , 1986 , 19, 1815-1824	5.5	58
6	Surface-enhanced rate of molecular alignment in a liquid-crystal polymer. <i>Macromolecules</i> , 1986 , 19, 2459-2461	5.5	3
5	Two-dimensional process modeling: A description of the SAFEPRO program. <i>IBM Journal of Research and Development</i> , 1985 , 29, 229-241	2.5	17
4	Nonbiological Sequence-Specific Oligomers by Repetitive Syntheses11-36		
3	Discussion Addendum for: Preparation of a Carbazole-Based Macrocycle Via Precipitation-Driven Alkyne Metathesis231-239		
2	Machine learning for polymeric materials: an introduction. <i>Polymer International</i> ,	3.3	7
1	Photoredox-Initiated Frontal Ring-Opening Metathesis Polymerization. <i>ACS Macro Letters</i> ,780-784	6.6	3