Jeffrey Moore

List of Publications by Citations

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	Autonomic healing of polymer composites. *Nature*, **2001**, 409, 794-7	50.4	3147
481	A field guide to foldamers. *Chemical Reviews*, **2001**, 101, 3893-4012	68.1	2004
480	Functional hydrogel structures for autonomous flow control inside microfluidic channels. *Nature*, **2000**, 404, 588-90	50.4	1622
479	Force-induced activation of covalent bonds in mechanoresponsive polymeric materials. *Nature*, **2009**, 459, 68-72	50.4	1211
478	Self-healing materials with microvascular networks. *Nature Materials*, **2007**, 6, 581-5	27	1198
477	One-dimensional self-assembly of planar pi-conjugated molecules: adaptable building blocks for organic nanodevices. *Accounts of Chemical Research*, **2008**, 41, 1596-608	24.3	1054
476	Mechanically-induced chemical changes in polymeric materials. *Chemical Reviews*, **2009**, 109, 5755-98	68.1	969
475	Solvophobically driven folding of nonbiological oligomers. *Science*, **1997**, 277, 1793-6	33.3	739
474	Spontaneous assembly of a hinged coordination network. *Nature*, **1995**, 374, 792-795	50.4	722
473	Surface-directed liquid flow inside microchannels. *Science*, **2001**, 291, 1023-6	33.3	635
472	Biasing reaction pathways with mechanical force. *Nature*, **2007**, 446, 423-7	50.4	611
471	Energy Transfer in Dendritic Macromolecules: Molecular Size Effects and the Role of an Energy Gradient. *Journal of the American Chemical Society*, **1996**, 118, 9635-9644	16.4	610
470	Shape-Persistent Molecular Architectures of Nanoscale Dimension. *Accounts of Chemical Research*, **1997**, 30, 402-413	24.3	557
469	Triggered Release from Polymer Capsules. *Macromolecules*, **2011**, 44, 5539-5553	5.5	487
468	Room temperature polyesterification. *Macromolecules*, **1990**, 23, 65-70	5.5	474
467	Shape-persistent macrocycles: structures and synthetic approaches from arylene and ethynylene building blocks. *Angewandte Chemie - International Edition*, **2006**, 45, 4416-39	16.4	464
466	Aromatic Stacking in Solution as Revealed through the Aggregation of Phenylacetylene Macrocycles. *Journal of the American Chemical Society*, **1996**, 118, 1019-1027	16.4	390

465	Detection of explosives with a fluorescent nanofibril film. *Journal of the American Chemical Society*, **2007**, 129, 6978-9	16.4	362
464	Nucleation-elongation: a mechanism for cooperative supramolecular polymerization. *Organic and Biomolecular Chemistry*, **2003**, 1, 3471-91	3.9	361
463	Polymer mechanochemistry: from destructive to productive. *Accounts of Chemical Research*, **2015**, 48, 2181-90	24.3	352
462	Dendrimer-Metalloporphyrins: Synthesis and Catalysis. *Journal of the American Chemical Society*, **1996**, 118, 5708-5711	16.4	344
461	PNIPAM chain collapse depends on the molecular weight and grafting density. *Langmuir*, **2006**, 22, 4259-66	4	339
460	Wax-Protected Catalyst Microspheres for Efficient Self-Healing Materials. *Advanced Materials*, **2005**, 17, 205-208	24	332
459	Cooperative Conformational Transitions in Phenylene Ethynylene Oligomers: Chain-Length Dependence. *Journal of the American Chemical Society*, **1999**, 121, 3114-3121	16.4	320
458	Microfluidic tectonics: a comprehensive construction platform for microfluidic systems. *Proceedings of the National Academy of Sciences of the United States of America*, **2000**, 97, 13488-93	11.5	305
457	Foldamer-Based Molecular Recognition. *Journal of the American Chemical Society*, **2000**, 122, 2758-2762	16.4	300
456	Zeolite-like Behavior of a Coordination Network. *Journal of the American Chemical Society*, **1995**, 117, 11600-11601	16.4	299
455	Mechanophore-linked addition polymers. *Journal of the American Chemical Society*, **2007**, 129, 13808-9	16.4	296
454	Shape-persistent arylene ethynylene macrocycles: syntheses and supramolecular chemistry. *Chemical Communications*, **2003**, 807-18	5.8	291
453	Design and synthesis of molecular turnstiles.. *Journal of the American Chemical Society*, **1995**, 117, 10662-10671	16.4	278
452	Biomimetic Self-Healing. *Angewandte Chemie - International Edition*, **2015**, 54, 10428-47	16.4	271
451	An organic solid with wide channels based on hydrogen bonding between macrocycles. *Nature*, **1994**, 371, 591-593	50.4	271
450	Spectroscopic Evidence for Excitonic Localization in Fractal Antenna Supermolecules. *Physical Review Letters*, **1997**, 78, 1239-1242	7.4	268
449	Self-healing thermoset using encapsulated epoxy-amine healing chemistry. *Polymer*, **2012**, 53, 581-587	3.9	267
448	Directed Energy Transfer Funnels in Dendrimeric Antenna Supermolecules *Journal of Physical Chemistry B*, **1997**, 101, 6318-6322	3.4	257

447	Solvophobically Driven Stacking of Phenylene Ethynylene Macrocycles and Oligomers. *Journal of the American Chemical Society*, **2000**, 122, 11315-11319	16.4	256
446	Solvent-Promoted Self-Healing Epoxy Materials. *Macromolecules*, **2007**, 40, 8830-8832	5.5	245
445	Autonomic restoration of electrical conductivity. *Advanced Materials*, **2012**, 24, 398-401	24	243
444	Electroluminescent diodes from a single component emitting layer of dendritic macromolecules. *Advanced Materials*, **1996**, 8, 237-241	24	243
443	Coordination Networks of 3,3'-Dicyanodiphenylacetylene and Silver(I) Salts: Structural Diversity through Changes in Ligand Conformation and Counterion. *Inorganic Chemistry*, **1997**, 36, 2960-2968	5.1	234
442	Self-assembly of folded m-phenylene ethynylene oligomers into helical columns. *Journal of the American Chemical Society*, **2001**, 123, 7978-84	16.4	227
441	Full Recovery of Fracture Toughness Using a Nontoxic Solvent-Based Self-Healing System. *Advanced Functional Materials*, **2008**, 18, 1898-1904	15.6	218
440	Polymers with autonomous life-cycle control. *Nature*, **2016**, 540, 363-370	50.4	215
439	Force-induced redistribution of a chemical equilibrium. *Journal of the American Chemical Society*, **2010**, 132, 16107-11	16.4	213
438	Double Exponential Dendrimer Growth. *Journal of the American Chemical Society*, **1995**, 117, 2159-2165	16.4	210
437	Polymer mechanochemistry: techniques to generate molecular force via elongational flows. *Chemical Society Reviews*, **2013**, 42, 7497-506	58.5	208
436	Phenylacetylene Dendrimers by the Divergent, Convergent, and Double-Stage Convergent Methods. *Journal of the American Chemical Society*, **1994**, 116, 4537-4550	16.4	206
435	Twist Sense Bias Induced by Chiral Side Chains in Helically Folded Oligomers. *Angewandte Chemie - International Edition*, **2000**, 39, 228-230	16.4	203
434	Responsive biomimetic hydrogel valve for microfluidics. *Applied Physics Letters*, **2001**, 78, 2589-2591	3.4	202
433	Restoration of large damage volumes in polymers. *Science*, **2014**, 344, 620-3	33.3	198
432	ROMP Reactivity ofendo- andexo-Dicyclopentadiene. *Macromolecules*, **2002**, 35, 7878-7882	5.5	198
431	Chain length-dependent affinity of helical foldamers for a rodlike guest. *Journal of the American Chemical Society*, **2001**, 123, 1792-3	16.4	192
430	A Packing Model for Interpenetrated Diamondoid Structures—An Interpretation Based on the Constructive Interference of Supramolecular Networks. *Chemistry - A European Journal*, **1997**, 3, 765-771	4.8	182

429	Ultrasound-Induced Site-Specific Cleavage of Azo-Functionalized Poly(ethylene glycol). *Macromolecules*, **2005**, 38, 8975-8978	5.5	182
428	Three-dimensional microvascular fiber-reinforced composites. *Advanced Materials*, **2011**, 23, 3654-8	24	178
427	Catalyst Morphology and Dissolution Kinetics of Self-Healing Polymers. *Chemistry of Materials*, **2006**, 18, 1312-1317	9.6	176
426	Robust, double-walled microcapsules for self-healing polymeric materials. *ACS Applied Materials & Interfaces*, **2010**, 2, 1195-9	9.5	173
425	Programmable microcapsules from self-immolative polymers. *Journal of the American Chemical Society*, **2010**, 132, 10266-8	16.4	172
424	Nanofibril self-assembly of an arylene ethynylene macrocycle. *Journal of the American Chemical Society*, **2006**, 128, 6576-7	16.4	172
423	Geometrically-Controlled and Site-Specifically-Functionalized Phenylacetylene Macrocycles. *Journal of the American Chemical Society*, **1994**, 116, 4227-4239	16.4	171
422	Coordination Networks Based on Multitopic Ligands and Silver(I) Salts: A Study of Network Connectivity and Topology as a Function of Counterion. *Chemistry of Materials*, **1996**, 8, 2030-2040	9.6	168
421	Continuous self-healing life cycle in vascularized structural composites. *Advanced Materials*, **2014**, 26, 4302-8	24	167
420	The chain-length dependence test. *Accounts of Chemical Research*, **2006**, 39, 11-20	24.3	164
419	Proton-coupled mechanochemical transduction: a mechanogenerated acid. *Journal of the American Chemical Society*, **2012**, 134, 12446-9	16.4	163
418	Fast pH- and Ionic Strength-Responsive Hydrogels in Microchannels. *Langmuir*, **2001**, 17, 4758-4763	4	163
417	Rapid energy-efficient manufacturing of polymers and composites via frontal polymerization. *Nature*, **2018**, 557, 223-227	50.4	161
416	Mechanically triggered heterolytic unzipping of a low-ceiling-temperature polymer. *Nature Chemistry*, **2014**, 6, 623-8	17.6	157
415	Thermally stable autonomic healing in epoxy using a dual-microcapsule system. *Advanced Materials*, **2014**, 26, 282-7	24	156
414	Evolutionary Design of Low Molecular Weight Organic Anolyte Materials for Applications in Nonaqueous Redox Flow Batteries. *Journal of the American Chemical Society*, **2015**, 137, 14465-72	16.4	154
413	Rapid Construction of Large-size Phenylacetylene Dendrimers up to 12.5 Nanometers in Molecular Diameter. *Angewandte Chemie International Edition in English*, **1993**, 32, 1354-1357		152
412	Folding-driven synthesis of oligomers. *Nature*, **2001**, 414, 889-93	50.4	148

411	Life extension of self-healing polymers with rapidly growing fatigue cracks. *Journal of the Royal Society Interface*, **2007**, 4, 395-403	4.1	147
410	Arylene ethynylene macrocycles prepared by precipitation-driven alkyne metathesis. *Journal of the American Chemical Society*, **2004**, 126, 12796	16.4	146
409	Shear activation of mechanophore-crosslinked polymers. *Journal of Materials Chemistry*, **2011**, 21, 8381		141
408	Microencapsulation of a Reactive Liquid-Phase Amine for Self-Healing Epoxy Composites. *Macromolecules*, **2010**, 43, 1855-1859	5.5	141
407	Nanoarchitectures. 6. Liquid Crystals Based on Shape-Persistent Macrocyclic Mesogens.. *Journal of the American Chemical Society*, **1994**, 116, 2655-2656	16.4	140
406	Triggered transience of metastable poly(phthalaldehyde) for transient electronics. *Advanced Materials*, **2014**, 26, 7637-42	24	139
405	Controlled Synthesis of Hyperbranched Polymers by Slow Monomer Addition to a Core. *Macromolecules*, **2000**, 33, 3212-3218	5.5	139
404	Soluble, chiral polyacetylenes: syntheses and investigation of their solution conformation. *Journal of the American Chemical Society*, **1991**, 113, 1704-1712	16.4	137
403	Impact of redox-active polymer molecular weight on the electrochemical properties and transport across porous separators in nonaqueous solvents. *Journal of the American Chemical Society*, **2014**, 136, 16309-16	16.4	136
402	Controlling the Secondary Structure of Nonbiological Oligomers with Solvophobic and Coordination Interactions. *Angewandte Chemie - International Edition*, **1999**, 38, 233-236	16.4	136
401	A self-healing conductive ink. *Advanced Materials*, **2012**, 24, 2578-81, 2509	24	135
400	Autonomic Healing of Epoxy Vinyl Esters via Ring Opening Metathesis Polymerization. *Advanced Functional Materials*, **2008**, 18, 44-52	15.6	135
399	Structure-mechanochemical activity relationships for cyclobutane mechanophores. *Journal of the American Chemical Society*, **2011**, 133, 18992-8	16.4	134
398	Masked cyanoacrylates unveiled by mechanical force. *Journal of the American Chemical Society*, **2010**, 132, 4558-9	16.4	134
397	Principles of surface-directed liquid flow in microfluidic channels. *Analytical Chemistry*, **2002**, 74, 4259-68	7.8	133
396	Autonomic Shutdown of Lithium-Ion Batteries Using Thermoresponsive Microspheres. *Advanced Energy Materials*, **2012**, 2, 583-590	21.8	130
395	Highly active trialkoxymolybdenum(VI) alkylidyne catalysts synthesized by a reductive recycle strategy. *Journal of the American Chemical Society*, **2004**, 126, 329-35	16.4	130
394	Diffusion-controlled detection of trinitrotoluene: interior nanoporous structure and low highest occupied molecular orbital level of building blocks enhance selectivity and sensitivity. *Journal of the American Chemical Society*, **2012**, 134, 4978-82	16.4	129

393	Chymotrypsin responsive hydrogel: application of a disulfide exchange protocol for the preparation of methacrylamide containing peptides. *Biomacromolecules*, **2005**, 6, 632-7	6.9	128
392	A new self-healing epoxy with tungsten (VI) chloride catalyst. *Journal of the Royal Society Interface*, **2008**, 5, 95-103	4.1	127
391	Evaluation of Ruthenium Catalysts for Ring-Opening Metathesis Polymerization-Based Self-Healing Applications. *Chemistry of Materials*, **2008**, 20, 3288-3297	9.6	125
390	Thermally triggered degradation of transient electronic devices. *Advanced Materials*, **2015**, 27, 3783-8	24	122
389	A Coordination Geometry Table of the d-Block Elements and Their Ions. *Journal of Chemical Education*, **1997**, 74, 915	2.4	122
388	Nanoarchitectures. 3. Aggregation of hexa(phenylacetylene) macrocycles in solution: a model system for studying .pi.-.pi. interactions. *Journal of the American Chemical Society*, **1992**, 114, 9701-9702	16.4	122
387	Formtreue Makrocyclen: Strukturen und Synthesen aus Arylen- und Ethinylen-Bausteinen. *Angewandte Chemie*, **2006**, 118, 4524-4548	3.6	121
386	Toward a Molecular Understanding of Energetics in Li–S Batteries Using Nonaqueous Electrolytes: A High-Level Quantum Chemical Study. *Journal of Physical Chemistry C*, **2014**, 118, 11545-11558	3.8	120
385	"Click" modification of silica surfaces and glass microfluidic channels. *Analytical Chemistry*, **2007**, 79, 1667-8	7.8	120
384	Kinetically Trapped Tetrahedral Cages via Alkyne Metathesis. *Journal of the American Chemical Society*, **2016**, 138, 2182-5	16.4	117
383	Reaction pathways leading to arylene ethynylene macrocycles via alkyne metathesis. *Journal of the American Chemical Society*, **2005**, 127, 11863-70	16.4	117
382	Regioisomer-Specific Mechanochromism of Naphthopyran in Polymeric Materials. *Journal of the American Chemical Society*, **2016**, 138, 12328-31	16.4	117
381	The size-selective synthesis of folded oligomers by dynamic templation. *Journal of the American Chemical Society*, **2002**, 124, 5934-5	16.4	116
380	Helicogenicity of solvents in the conformational equilibrium of oligo(m-phenylene ethynylene)s: implications for foldamer research. *Proceedings of the National Academy of Sciences of the United States of America*, **2002**, 99, 5053-7	11.5	116
379	Helical Bias in Solvophobically Folded Oligo(Phenylene Ethynylene)s. *Journal of the American Chemical Society*, **1999**, 121, 2643-2644	16.4	116
378	Environmental effects on mechanochemical activation of spiropyran in linear PMMA. *Journal of Materials Chemistry*, **2011**, 21, 8443		115
377	Nanoarchitectures. 1. Controlled synthesis of phenylacetylene sequences. *Journal of the American Chemical Society*, **1992**, 114, 2273-2274	16.4	115
376	Restoration of Conductivity with TTF-TCNQ Charge-Transfer Salts. *Advanced Functional Materials*, **2010**, 20, 1721-1727	15.6	114

375	Solvent-free synthesis of Janus colloidal particles. *Langmuir*, **2008**, 24, 10073-7	4	113
374	Use of corticosteroids after hepatoportoenterostomy for bile drainage in infants with biliary atresia: the START randomized clinical trial. *JAMA - Journal of the American Medical Association*, **2014**, 311, 1750-9	27.4	112
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372	Control and applications of immiscible liquids in microchannels. *Journal of the American Chemical Society*, **2002**, 124, 5284-5	16.4	112
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370	Exploiting Force Sensitive Spiropyrans as Molecular Level Probes. *Macromolecules*, **2013**, 46, 3746-3752	5.5	109
369	Functional nanostructured plasmonic materials. *Advanced Materials*, **2010**, 22, 1102-10	24	104
368	Solid-Supported Hyperbranched Polymerization: Evidence for Self-Limited Growth. *Journal of the American Chemical Society*, **1997**, 119, 3391-3392	16.4	104
367	Columnar Liquid Crystals from Shape-Persistent Dendritic Molecules. *Angewandte Chemie International Edition in English*, **1997**, 36, 1636-1639		104
366	Energy storage emerging: A perspective from the Joint Center for Energy Storage Research. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 12550-12557	11.5	103
365	Cooperativity in the folding of helical m-phenylene ethynylene oligomers based upon the 'sergeants-and-soldiers' principle. *Chemistry - A European Journal*, **2001**, 7, 4150-4	4.8	103
364	Shape selective epoxidation of alkenes by metalloporphyrin-dendrimers. *Journal of Molecular Catalysis A*, **1996**, 113, 109-116		101
363	End group characterization of poly(phthalaldehyde): surprising discovery of a reversible, cationic macrocyclization mechanism. *Journal of the American Chemical Society*, **2013**, 135, 12755-61	16.4	99
362	A convenient masking group for aryl iodides. *Tetrahedron Letters*, **1991**, 32, 2465-2466	2	99
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358	Self-healing kinetics and the stereoisomers of dicyclopentadiene. *Journal of the Royal Society Interface*, **2007**, 4, 389-93	4.1	96

357	A reductive recycle strategy for the facile synthesis of molybdenum(VI) alkylidyne catalysts for alkyne metathesis. *Chemical Communications*, **2003**, 832-3	5.8	96
356	Redox Active Polymers as Soluble Nanomaterials for Energy Storage. *Accounts of Chemical Research* , **2016**, 49, 2649-2657	24.3	94
355	Rapid 3D Extrusion of Synthetic Tumor Microenvironments. *Advanced Materials*, **2015**, 27, 5512-7	24	93
354	Reversible dispersion and release of carbon nanotubes using foldable oligomers. *Journal of the American Chemical Society*, **2010**, 132, 14113-7	16.4	93
353	Solid-Phase Synthesis of Phenylacetylene Oligomers Utilizing a Novel 3-Propyl-3-(benzyl-supported) Triazene Linkage. *Journal of Organic Chemistry*, **1996**, 61, 8160-8168	4.2	93
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351	Role of Mechanophore Orientation in Mechanochemical Reactions.. *ACS Macro Letters*, **2012**, 1, 163-166	6.6	90
350	Synthesis and self-association of an imine-containing m-phenylene ethynylene macrocycle. *Journal of Organic Chemistry*, **2002**, 67, 3548-54	4.2	90
349	Efficient Synthesis of Nanoscale Macrocyclic Hydrocarbons. *Angewandte Chemie International Edition in English*, **1992**, 31, 922-924		90
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347	Synthesis and characterization of monodendrons based on 9-phenylcarbazole. *Journal of Organic Chemistry*, **2000**, 65, 116-23	4.2	89
346	Synthesis of rigid dendritic macromolecules: enlarging the repeat unit size as a function of generation, permitting growth to continue. *Macromolecules*, **1991**, 24, 5893-5894	5.5	88
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343	Orientation dynamics of main-chain liquid crystal polymers. 2. Structure and kinetics in a magnetic field. *Macromolecules*, **1987**, 20, 282-293	5.5	85
342	Macromolecular Design Strategies for Preventing Active-Material Crossover in Non-Aqueous All-Organic Redox-Flow Batteries. *Angewandte Chemie - International Edition*, **2017**, 56, 1595-1599	16.4	84
341	Synthesis of Sequence Specific Phenylacetylene Oligomers on an Insoluble Solid Support. *Journal of the American Chemical Society*, **1994**, 116, 10841-10842	16.4	84
340	Mechanophore activation at heterointerfaces. *Journal of the American Chemical Society*, **2014**, 136, 15925-8	16.4	83

339	Redox Active Colloids as Discrete Energy Storage Carriers. *Journal of the American Chemical Society*, **2016**, 138, 13230-13237	16.4	81
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337	Reversible polymerization driven by folding. *Journal of the American Chemical Society*, **2002**, 124, 9996-7	16.4	80
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331	Concentration-Dependent Dimerization of Anthraquinone Disulfonic Acid and Its Impact on Charge Storage. *Chemistry of Materials*, **2017**, 29, 4801-4810	9.6	77
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326	A Mo(VI) alkylidyne complex with polyhedral oligomeric silsesquioxane ligands: homogeneous analogue of a silica-supported alkyne metathesis catalyst. *Journal of the American Chemical Society*, **2006**, 128, 14742-3	16.4	74
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324	Zinc chloride-promoted aryl bromide-alkyne cross-coupling reactions at room temperature. *Journal of Organic Chemistry*, **2009**, 74, 8897-900	4.2	72
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318	Covalent assembly of molecular ladders. *Journal of the American Chemical Society*, **2007**, 129, 4512-3	16.4	66
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309	Swelling Kinetics of Disulfide Cross-Linked Microgels. *Macromolecules*, **2003**, 36, 3960-3966	5.5	61
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307	Homochiral Self-Sorting of BINOL Macrocycles. *Chemical Science*, **2014**, 5, 81-85	9.4	59
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