

Michael R Buchmeiser

List of Publications by Year in descending order

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15,701
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19657

61
h-index

31849

101
g-index

407
all docs

407
docs citations

407
times ranked

9778
citing authors

#	ARTICLE	IF	CITATIONS
1	Homogeneous Metathesis Polymerization by Well-Defined Group VI and Group VIII Transition-Metal Alkylidenes: Fundamentals and Applications in the Preparation of Advanced Materials. <i>Chemical Reviews</i> , 2000, 100, 1565-1604.	47.7	769
2	Carbon Fibers: Precursor Systems, Processing, Structure, and Properties. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 5262-5298.	13.8	697
3	Carbon Fibers: Precursors, Manufacturing, and Properties. <i>Macromolecular Materials and Engineering</i> , 2012, 297, 493-501.	3.6	336
4	Structure-Related Electrochemistry of Sulfur-Poly(acrylonitrile) Composite Cathode Materials for Rechargeable Lithium Batteries. <i>Chemistry of Materials</i> , 2011, 23, 5024-5028.	6.7	323
5	Polymer-Supported Well-Defined Metathesis Catalysts. <i>Chemical Reviews</i> , 2009, 109, 303-321.	47.7	294
6	Polymeric monolithic materials: Syntheses, properties, functionalization and applications. <i>Polymer</i> , 2007, 48, 2187-2198.	3.8	235
7	1,3-Dialkyl- and 1,3-Diaryl-3,4,5,6-tetrahydropyrimidin-2-ylidene Rhodium(I) and Palladium(II) Complexes: Synthesis, Structure, and Reactivity. <i>Chemistry - A European Journal</i> , 2004, 10, 1256-1266.	3.3	230
8	Access to Well-Defined Heterogeneous Catalytic Systems via Ring-Opening Metathesis Polymerization (ROMP): Applications in Palladium(II)-Mediated Coupling Reactions. <i>Journal of the American Chemical Society</i> , 1999, 121, 11101-11107.	13.7	192
9	Novel Metathesis Catalysts Based on Ruthenium 1,3-Dimesityl-3,4,5,6-tetrahydropyrimidin-2-ylidenes: Synthesis, Structure, Immobilization, and Catalytic Activity. <i>Chemistry - A European Journal</i> , 2004, 10, 5761-5770.	3.3	173
10	Synthesis and Reactivity of Homogeneous and Heterogeneous Ruthenium-Based Metathesis Catalysts Containing Electron-Withdrawing Ligands. <i>Chemistry - A European Journal</i> , 2004, 10, 777-784.	3.3	166
11	A New Class of Continuous Polymer Supports Prepared by Ring-Opening Metathesis Polymerization: A Straightforward Route to Functionalized Monoliths. <i>Macromolecules</i> , 2000, 33, 5777-5786.	4.8	156
12	Monolithic Materials: New High-Performance Supports for Permanently Immobilized Metathesis Catalysts. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 3839-3842.	13.8	154
13	Bis(pyrimidine)-based palladium catalysts: synthesis, X-ray structure and applications in Heck, Suzuki, Sonogashira, Hagihara couplings and amination reactions. <i>Journal of Organometallic Chemistry</i> , 2001, 634, 39-46.	1.8	153
14	Simple Synthesis of Poly(acetylene) Latex Particles in Aqueous Media. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 5965-5969.	13.8	151
15	New synthetic ways for the preparation of high-performance liquid chromatography supports. <i>Journal of Chromatography A</i> , 2001, 918, 233-266.	3.7	150
16	Ring-Opening Metathesis Polymerization for the Preparation of Surface-Grafted Polymer Supports. <i>Macromolecules</i> , 2000, 33, 32-39.	4.8	135
17	Recent advances in the synthesis of supported metathesis catalysts. <i>New Journal of Chemistry</i> , 2004, 28, 549.	2.8	133
18	Novel Ruthenium-Based Metathesis Catalysts Containing Electron-Withdrawing Ligands: Synthesis, Immobilization, and Reactivity. <i>Journal of Organic Chemistry</i> , 2005, 70, 4687-4694.	3.2	128

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19	Dipyridyl Amide-Functionalized Polymers Prepared by Ring-Opening-Metathesis Polymerization (ROMP) for the Selective Extraction of Mercury and Palladium. <i>Journal of the American Chemical Society</i> , 1998, 120, 2790-2797.	13.7	122
20	CO ₂ and Sn ^{II} Adducts of N-Heterocyclic Carbenes as Delayed-Action Catalysts for Polyurethane Synthesis. <i>Chemistry - A European Journal</i> , 2009, 15, 3103-3109.	3.3	121
21	Alternating Copolymerizations Using a Grubbs-Type Initiator with an Unsymmetrical, Chiral N-Heterocyclic Carbene Ligand. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 2615-2618.	13.8	118
22	CO ₂ , Magnesium, Aluminum, and Zinc Adducts of N-Heterocyclic Carbenes as (Latent) Catalysts for Polyurethane Synthesis. <i>European Journal of Inorganic Chemistry</i> , 2009, 2009, 1970-1976.	2.0	116
23	Easily Accessible, Textile Fiber-Based Sulfurized Poly(acrylonitrile) as Li/S Cathode Material: Correlating Electrochemical Performance with Morphology and Structure. <i>ACS Energy Letters</i> , 2017, 2, 595-604.	17.4	116
24	Factors Relevant for the Ruthenium-Benzylidene-Catalyzed Cyclopolymerization of 1,6-Heptadiynes. <i>Chemistry - A European Journal</i> , 2004, 10, 2029-2035.	3.3	108
25	Synthesis of Polyenes That Contain Metallocenes via the Living Polymerization of Ethynylferrocene and Ethynylruthenocene. <i>Macromolecules</i> , 1995, 28, 6642-6649.	4.8	107
26	Ring-Opening-Metathesis Polymerization for the Preparation of Carboxylic-Acid-Functionalized, High-Capacity Polymers for Use in Separation Techniques. <i>Journal of the American Chemical Society</i> , 1997, 119, 9166-9174.	13.7	106
27	Hydrophobic, Pellicular, Monolithic Capillary Columns Based on Cross-Linked Polynorbornene for Biopolymer Separations. <i>Analytical Chemistry</i> , 2002, 74, 6080-6087.	6.5	103
28	On-Line Cation Exchange for Suppression of Adduct Formation in Negative-Ion Electrospray Mass Spectrometry of Nucleic Acids. <i>Analytical Chemistry</i> , 1998, 70, 5288-5295.	6.5	102
29	Heterogenization of a Modified Grubbs-Hoveyda Catalyst on a ROMP-Derived Monolithic Support. <i>Macromolecular Rapid Communications</i> , 2003, 24, 875-878.	3.9	101
30	Liberation of N-heterocyclic carbenes (NHCs) from thermally labile progenitors: protected NHCs as versatile tools in organo- and polymerization catalysis. <i>Catalysis Science and Technology</i> , 2014, 4, 2466-2479.	4.1	101
31	N-Acyl-N,N-dipyridyl and N-acyl-N-pyridyl-N-quinoyl amine based palladium complexes. Synthesis, X-ray structures, heterogenization and use in Heck couplings. <i>Journal of Organometallic Chemistry</i> , 2001, 622, 6-18.	1.8	100
32	Conversion of Perhydropolysilazane into a SiO _x Network Triggered by Vacuum Ultraviolet Irradiation: Access to Flexible, Transparent Barrier Coatings. <i>Chemistry - A European Journal</i> , 2007, 13, 8522-8529.	3.3	96
33	Ring-Opening Metathesis Polymerization (ROMP) in Ionic Liquids: Scope and Limitations. <i>Macromolecules</i> , 2006, 39, 7821-7830.	4.8	94
34	Fine-Tuning of Molybdenum Imido Alkylidene Complexes for the Cyclopolymerization of 1,6-Heptadiynes To Give Polyenes Containing Exclusively Five-Membered Rings. <i>Macromolecules</i> , 2002, 35, 9029-9038.	4.8	93
35	UV curing and matting of acrylate coatings reinforced by nano-silica and micro-corundum particles. <i>Progress in Organic Coatings</i> , 2007, 60, 121-126.	3.9	91
36	Cationic Ru ^{II} Complexes with N-Heterocyclic Carbene Ligands for UV-Induced Ring-Opening Metathesis Polymerization. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 3267-3270.	13.8	91

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37	Factors Relevant for the Regioselective Cyclopolymerization of 1,6-Heptadiynes, N,N-Dipropargylamines, N,N-Dipropargylammonium Salts, and Dipropargyl Ethers by Ru(VI)-Alkylidene-Based Metathesis Initiators. <i>Journal of the American Chemical Society</i> , 2009, 131, 387-395.	13.7	88
38	Metathesis-Based Monoliths: Influence of Polymerization Conditions on the Separation of Biomolecules. <i>Analytical Chemistry</i> , 2001, 73, 4071-4078.	6.5	87
39	Nano/Micro Particle Hybrid Composites for Scratch and Abrasion Resistant Polyacrylate Coatings. <i>Macromolecular Materials and Engineering</i> , 2006, 291, 493-498.	3.6	83
40	Cationic Silica-Supported N-Heterocyclic Carbene Tungsten Oxo Alkylidene Sites: Highly Active and Stable Catalysts for Olefin Metathesis. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 4300-4302.	13.8	83
41	Latent and Delayed Action Polymerization Systems. <i>Macromolecular Rapid Communications</i> , 2014, 35, 682-701.	3.9	81
42	N-Heterocyclic Carbene, High Oxidation State Molybdenum Alkylidene Complexes: Functional-Group-Tolerant Cationic Metathesis Catalysts. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 9384-9388.	13.8	81
43	Cationic Tungsten-Oxo-Alkylidene-N-Heterocyclic Carbene Complexes: Highly Active Olefin Metathesis Catalysts. <i>Journal of the American Chemical Society</i> , 2015, 137, 6188-6191.	13.7	81
44	Rechargeable Magnesium-Sulfur Battery Technology: State of the Art and Key Challenges. <i>Advanced Functional Materials</i> , 2019, 29, 1905248.	14.9	80
45	Living Polymerization of Novel Conjugatively Spaced Ferrocenylacetylenes. <i>Macromolecules</i> , 1998, 31, 3175-3183.	4.8	79
46	Correlation of the electrochemistry of poly(acrylonitrile)-sulfur composite cathodes with their molecular structure. <i>Journal of Materials Chemistry</i> , 2012, 22, 23240.	6.7	79
47	Ceramic Filament Fibers - A Review. <i>Macromolecular Materials and Engineering</i> , 2012, 297, 502-522.	3.6	77
48	Alternating Ring-Opening Metathesis Copolymerization by Grubbs-Type Initiators with Unsymmetrical N-Heterocyclic Carbenes. <i>Chemistry - A European Journal</i> , 2009, 15, 9451-9457.	3.3	76
49	Stereospecific Ring-Opening Metathesis Polymerization (ROMP) of <i>endo</i> -Dicyclopentadiene by Molybdenum and Tungsten Catalysts. <i>Macromolecules</i> , 2015, 48, 2480-2492.	4.8	75
50	Stereoselective Cyclopolymerization of 1,6-Heptadiynes: Access to Alternating cis-trans-1,2-(Cyclopent-1-enylene)vinylenes by Fine-Tuning of Molybdenum Imidoalkylidenes. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 4044-4047.	13.8	74
51	Processing of Cellulose Using Ionic Liquids. <i>Macromolecular Materials and Engineering</i> , 2019, 304, 1800450.	3.6	73
52	The Next 100 Years of Polymer Science. <i>Macromolecular Chemistry and Physics</i> , 2020, 221, 2000216.	2.2	69
53	N-heterocyclic carbene complexes of Zn(II): synthesis, X-ray structures and reactivity. <i>Journal of Organometallic Chemistry</i> , 2004, 689, 2123-2130.	1.8	68
54	Cyclopolymerization of <i>N,N</i> -Dipropargylamines and <i>N,N</i> -Dipropargyl Ammonium Salts. <i>Macromolecules</i> , 2008, 41, 1919-1928.	4.8	67

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55	Protected N-heterocyclic carbenes as latent pre-catalysts for the polymerization of ϵ -caprolactone. <i>Polymer Chemistry</i> , 2013, 4, 4172.	3.9	67
56	Access to silica- and monolithic polymer supported $Ci-C$ -coupling catalysts via ROMP: applications in high-throughput screening, reactor technology and biphasic catalysis. <i>Inorganica Chimica Acta</i> , 2003, 345, 145-153.	2.4	65
57	Rapid Screening of New Polymer-Supported Palladium(II) Bis(3,4,5,6-tetrahydropyrimidin-2-ylidenes). <i>Macromolecular Rapid Communications</i> , 2004, 25, 231-236.	3.9	64
58	Pseudo-Halide and Nitrate Derivatives of Grubbs and Grubbs-Hoveyda Initiators: Some Structural Features Related to the Alternating Ring-Opening Metathesis Copolymerization of Norborn-2-ene with Cyclic Olefins. <i>Macromolecules</i> , 2011, 44, 4098-4106.	4.8	63
59	Catalysts Immobilized on Organic Polymeric Monolithic Supports: From Molecular Heterogeneous Catalysis to Biocatalysis. <i>ChemCatChem</i> , 2012, 4, 30-44.	3.7	63
60	Conductive Polymer Electrolytes Derived from Poly(norbornene)s with Pendant Ionic Imidazolium Moieties. <i>Macromolecular Chemistry and Physics</i> , 2008, 209, 40-51.	2.2	62
61	Zn-Based UV Nanocomposites for Wood Coatings in Outdoor Applications. <i>Macromolecular Materials and Engineering</i> , 2010, 295, 130-136.	3.6	61
62	Olefin Metathesis in Confined Geometries: A Biomimetic Approach toward Selective Macrocyclization. <i>Journal of the American Chemical Society</i> , 2019, 141, 19014-19022.	13.7	60
63	Synthesis of Polyenes That Contain Mesogenic Side Chains via the Living Polymerization of 4-(Ferrocenylethynyl)-4-ethynyltolane. <i>Macromolecules</i> , 1997, 30, 2274-2277.	4.8	59
64	Metathesis-Based Monolithic Supports: Synthesis, Functionalization and Applications. <i>Macromolecular Rapid Communications</i> , 2001, 22, 1081.	3.9	59
65	High Energy Density Poly(acrylonitrile)-Sulfur Composite-Based Lithium-Sulfur Batteries. <i>Journal of the Electrochemical Society</i> , 2013, 160, A1169-A1170.	2.9	59
66	Neutral and Cationic Molybdenum Imido Alkylidene N -Heterocyclic Carbene Complexes: Reactivity in Selected Olefin Metathesis Reactions and Immobilization on Silica. <i>Chemistry - A European Journal</i> , 2015, 21, 13778-13787.	3.3	59
67	Multifilament cellulose/chitin blend yarn spun from ionic liquids. <i>Carbohydrate Polymers</i> , 2015, 131, 34-40.	10.2	59
68	Copper (I) 1,3-R2-3,4,5,6-tetrahydropyrimidin-2-ylidenes (R=mesityl, 2-propyl): synthesis, X-ray structures, immobilization and catalytic activity. <i>Tetrahedron</i> , 2005, 61, 12145-12152.	1.9	58
69	Polymer-Supported, Carbon Dioxide-Protected N -Heterocyclic Carbenes: Synthesis and Application in Organo- and Organometallic Catalysis. <i>Advanced Synthesis and Catalysis</i> , 2010, 352, 917-928.	4.3	58
70	Fast separation of low molecular weight analytes on structurally optimized polymeric capillary monoliths. <i>Journal of Chromatography A</i> , 2010, 1217, 3223-3230.	3.7	57
71	Molybdenum Imido Alkylidene N -Heterocyclic Carbene Complexes: Structure-Productivity Correlations and Mechanistic Insights. <i>ChemCatChem</i> , 2016, 8, 2710-2723.	3.7	57
72	ROMP-Based, Highly Hydrophilic Poly(7-oxanorborn-2-ene-5,6-dicarboxylic acid)-Coated Silica for Analytical and Preparative Scale High-Performance Ion Chromatography. <i>Chemistry of Materials</i> , 1999, 11, 1533-1540.	6.7	56

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73	UV curing and matting of acrylate nanocomposite coatings by 172 nm excimer irradiation. <i>Progress in Organic Coatings</i> , 2009, 64, 474-481.	3.9	56
74	Visible Light-Induced Grafting from Polyolefins. <i>Macromolecules</i> , 2013, 46, 6395-6401.	4.8	55
75	Micropreparative fractionation of DNA fragments on metathesis-based monoliths: influence of stoichiometry on separation. <i>Journal of Chromatography A</i> , 2002, 959, 121-129.	3.7	54
76	Access to Heterogeneous Atom-Transfer Radical Polymerization (ATRP) Catalysts Based on Dipyrildamine and Terpyridine via Ring-Opening Metathesis Polymerization (ROMP). <i>Macromolecular Chemistry and Physics</i> , 2001, 202, 645-653.	2.2	53
77	Rh(1,3-bis(2,4,6-trimethylphenyl)-3,4,5,6-tetrahydropyrimidin-2-ylidene)(COD) tetrafluoroborate, an unsymmetrical Rh-homoazallylcarbene: synthesis, X-ray structure and reactivity in carbonyl arylation and hydrosilylation reactions. <i>Journal of Organometallic Chemistry</i> , 2005, 690, 4433-4440.	1.8	52
78	Stereoselective Cyclopolymerization of Polar 1,6-Heptadiynes by Novel, Tailor-Made Ruthenium-Based Metathesis Catalysts. <i>Macromolecular Rapid Communications</i> , 2005, 26, 784-790.	3.9	51
79	Monolithic Media Prepared Via Electron Beam Curing for Proteins Separation and Flow-Through Catalysis. <i>Macromolecular Chemistry and Physics</i> , 2007, 208, 1428-1436.	2.2	51
80	Ring-Opening Metathesis Polymerization Based Pore-Size-Selective Functionalization of Glycidyl Methacrylate Based Monolithic Media: Access to Size-Stable Nanoparticles for Ligand-Free Metal Catalysis. <i>Chemistry - A European Journal</i> , 2010, 16, 4650-4658.	3.3	51
81	A Dicationic Ruthenium Alkylidene Complex for Continuous Biphasic Metathesis Using Monolith-Supported Ionic Liquids. <i>Chemistry - A European Journal</i> , 2012, 18, 14069-14078.	3.3	51
82	Polymerization of methyl methacrylate by latent pre-catalysts based on CO ₂ -protected N-heterocyclic carbenes. <i>Polymer Chemistry</i> , 2013, 4, 2731.	3.9	51
83	Monolithic High-Performance SEC Supports Prepared by ROMP for High-Throughput Screening of Polymers. <i>Macromolecular Rapid Communications</i> , 2002, 23, 617.	3.9	50
84	Cationic versus Neutral Ru ^{II} -Heterocyclic Carbene Complexes as Latent Precatalysts for the UV-Induced Ring-Opening Metathesis Polymerization. <i>Chemistry - A European Journal</i> , 2010, 16, 12928-12934.	3.3	50
85	Polymeric monolith supported Pt-nanoparticles as ligand-free catalysts for olefinhydrosilylation under batch and continuous conditions. <i>Catalysis Science and Technology</i> , 2012, 2, 220-226.	4.1	50
86	Polymerization of ϵ -Caprolactam by Latent Precatalysts Based on Protected N-Heterocyclic Carbenes. <i>ACS Macro Letters</i> , 2013, 2, 609-612.	4.8	50
87	Electron Beam-Based Functionalization of Poly(ethersulfone) Membranes. <i>Macromolecular Rapid Communications</i> , 2010, 31, 467-472.	3.9	49
88	Tailored Ring-Opening Metathesis Polymerization Derived Monolithic Media Prepared from Cyclooctene-Based Monomers and Cross-Linkers. <i>Macromolecules</i> , 2006, 39, 5222-5229.	4.8	48
89	Highly cross-linked polymeric capillary monoliths for the separation of low, medium, and high molecular weight analytes. <i>Journal of Separation Science</i> , 2009, 32, 2521-2529.	2.5	48
90	Synthesis of zirconia toughened alumina (ZTA) fibers for high performance materials. <i>Journal of the European Ceramic Society</i> , 2016, 36, 725-731.	5.7	48

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91	A New Approach to High-Capacity Functionalized Monoliths via Post-Synthesis Grafting. <i>Macromolecular Rapid Communications</i> , 2003, 24, 580-584.	3.9	47
92	First Controlled Cyclopolymerization of Diethyl Dipropargylmalonate by MoCl ₅ ·n-Bu ₄ Sn·EtOH·Quinuclidine and MoOCl ₄ ·n-Bu ₄ Sn·EtOH·Quinuclidine To Give Highly Regular Polyenes Consisting Exclusively of 1,2-(Cyclopent-1-enylene)-Vinylene Units. <i>Macromolecules</i> , 2003, 36, 2668-2673.	4.8	47
93	Capped-Tetrahedrally Coordinated Fe(II) and Co(II) Complexes Using a "Click"-Derived Tripodal Ligand: Geometric and Electronic Structures. <i>Inorganic Chemistry</i> , 2012, 51, 7592-7597.	4.0	46
94	Phosphonate-based resins for the selective enrichment of uranium(VI). <i>Analytica Chimica Acta</i> , 1999, 402, 91-97.	5.4	45
95	Homologous Poly(isobutylene)s: Poly(isobutylene)/High-Density Poly(ethylene) Hybrid Polymers. <i>Macromolecules</i> , 2008, 41, 8405-8412.	4.8	45
96	Molybdenum Imido Alkylidene Complexes Containing N- and C-Chelating N-Heterocyclic Carbenes. <i>Organometallics</i> , 2016, 35, 4106-4111.	2.3	44
97	A ROMP-derived, polymer-supported chiral Schrock catalyst for enantioselective ring-closing olefin metathesis. <i>Chemical Communications</i> , 2003, , 2742-2743.	4.1	43
98	Bi- and Trinuclear Ruthenium Alkylidene Triggered Cyclopolymerization of 1,6-Heptadiynes: Access to An ⁿ X ^m An Block and (An) ₃ X Tristar Copolymers. <i>Macromolecules</i> , 2006, 39, 3484-3493.	4.8	43
99	Cellulose-Derived Carbon Fibers with Improved Carbon Yield and Mechanical Properties. <i>Macromolecular Materials and Engineering</i> , 2017, 302, 1700195.	3.6	43
100	Polymerization of phenylacetylene by novel Rh (I)-, Ir (I)- and Ru (IV) 1,3-R ₂ -3,4,5,6-tetrahydropyrimidin-2-ylidenes (R=mesityl, 2-propyl): Influence of structure on activity and polymer structure. <i>Journal of Organometallic Chemistry</i> , 2005, 690, 5728-5735.	1.8	42
101	Ru ^{II} Alkylidene Metathesis Catalysts Based on 1,3-Dimesityl-4,5,6,7-tetrahydro-1,3-diazepin-2-ylidenes: Synthesis, Structure, and Activity. <i>Organometallics</i> , 2009, 28, 1785-1790.	2.3	42
102	Air Stable and Latent Single-Component Curing of Epoxy/Anhydride Resins Catalyzed by Thermally Liberated N-Heterocyclic Carbenes. <i>Macromolecules</i> , 2014, 47, 4548-4556.	4.8	42
103	Stereoselective Ring-Opening Metathesis Polymerization with Molybdenum Imido Alkylidenes Containing O-Chelating N-Heterocyclic Carbenes: Influence of Syn/Anti Interconversion and Polymerization Rates on Polymer Structure. <i>Macromolecules</i> , 2017, 50, 5701-5710.	4.8	42
104	Selective Extraction of Rare-Earth Elements from Rocks Using a High-Capacity cis-1,4-Butanedioic Acid-Functionalized Resin. <i>Analytical Chemistry</i> , 1998, 70, 2130-2136.	6.5	41
105	Stereoselective Cyclopolymerization of Diynes: Smart Materials for Electronics and Sensors. <i>Macromolecular Symposia</i> , 2004, 217, 179-190.	0.7	41
106	Carbon Fibers Prepared from Melt Spun Peracylated Softwood Lignin: an Integrated Approach. <i>Macromolecular Materials and Engineering</i> , 2017, 302, 1600441.	3.6	41
107	Molybdenum Imido, Tungsten Imido and Tungsten Oxo Alkylidene N-Heterocyclic Carbene Olefin Metathesis Catalysts. <i>Chemistry - A European Journal</i> , 2018, 24, 14295-14301.	3.3	41
108	Synthesis of water-soluble homo- and block-copolymers by RAFT polymerization under ¹³⁷ Cs-irradiation in aqueous media. <i>Polymer</i> , 2010, 51, 4319-4328.	3.8	40

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109	Anionic Ring-Opening Homo- and Copolymerization of Lactams by Latent, Protected N-Heterocyclic Carbenes for the Preparation of PA 12 and PA 6/12. <i>Macromolecules</i> , 2013, 46, 8426-8433.	4.8	40
110	Ionic Liquid Approach Toward Manufacture and Full Recycling of All-Cellulose Composites. <i>Macromolecular Materials and Engineering</i> , 2018, 303, 1700335.	3.6	40
111	Determination of airborne, volatile amines from polyurethane foams by sorption onto a high-capacity cation-exchange resin based on poly(succinic acid). <i>Journal of Chromatography A</i> , 1998, 809, 121-129.	3.7	39
112	Promoting Terminal Olefin Metathesis with a Supported Cationic Molybdenum Imido Alkylidene N-Heterocyclic Carbene Catalyst. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 14566-14569.	13.8	39
113	Cathode materials for lithium-sulfur batteries based on sulfur covalently bound to a polymeric backbone. <i>Journal of Materials Chemistry A</i> , 2020, 8, 5379-5394.	10.3	39
114	Group 6 metal alkylidene and alkylidene N-heterocyclic carbene complexes for olefin and alkyne metathesis. <i>Coordination Chemistry Reviews</i> , 2020, 415, 213315.	18.8	39
115	Application of imidazolium salts and N-heterocyclic olefins for the synthesis of anionic and neutral tungsten imido alkylidene complexes. <i>Chemical Communications</i> , 2016, 52, 6099-6102.	4.1	38
116	Highly Productive and Enantioselective Enzyme Catalysis under Continuous Supported Liquid-Liquid Conditions Using a Hybrid Monolithic Bioreactor. <i>ChemSusChem</i> , 2016, 9, 2917-2921.	6.8	38
117	Carbon fibers prepared from ionic liquid-derived cellulose precursors. <i>Materials Today Communications</i> , 2016, 7, 1-10.	1.9	38
118	High Oxidation State Molybdenum N-Heterocyclic Carbene Alkylidene Complexes: Synthesis, Mechanistic Studies, and Reactivity. <i>Chemistry - A European Journal</i> , 2017, 23, 15484-15490.	3.3	38
119	Mechanism of Olefin Metathesis with Neutral and Cationic Molybdenum Imido Alkylidene N-Heterocyclic Carbene Complexes. <i>Journal of the American Chemical Society</i> , 2019, 141, 8264-8276.	13.7	38
120	New Ways to Porous Monolithic Materials with Uniform Pore Size Distribution. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 3795-3797.	13.8	37
121	Evaluation of ring-opening metathesis polymerization (ROMP)-derived monolithic capillary high performance liquid chromatography columns. <i>Journal of Chromatography A</i> , 2005, 1090, 81-89.	3.7	37
122	Quantification of Lanthanides in Rocks Using Succinic Acid-Derivatized Sorbents for On-Line SPE-RP-Ion-Pair HPLC. <i>Analytical Chemistry</i> , 2000, 72, 2595-2602.	6.5	36
123	Hydroformylation of 1-octene using rhodium-1,3,4,5,6-tetrahydropyrimidin-2-ylidenes (R=2-Pr). <i>Journal of Organometallic Chemistry</i> , 2007, 687, 103-110.	4.8	36
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#	ARTICLE	IF	CITATIONS
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