

Rolf MÃ¼hlhaupt

List of Publications by Year in descending order

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258
papers

26,063
citations

8181

76
h-index

6836

155
g-index

270
all docs

270
docs citations

270
times ranked

20730
citing authors

#	ARTICLE	IF	CITATIONS
1	Stereospecific Olefin Polymerization with Chiral Metallocene Catalysts. <i>Angewandte Chemie International Edition in English</i> , 1995, 34, 1143-1170.	4.4	2,623
2	Polymers for 3D Printing and Customized Additive Manufacturing. <i>Chemical Reviews</i> , 2017, 117, 10212-10290.	47.7	2,383
3	Palladium Nanoparticles on Graphite Oxide and Its Functionalized Graphene Derivatives as Highly Active Catalysts for the Suzuki-Miyaura Coupling Reaction. <i>Journal of the American Chemical Society</i> , 2009, 131, 8262-8270.	13.7	1,127
4	Controlled Synthesis of Hyperbranched Polyglycerols by Ring-Opening Multibranching Polymerization. <i>Macromolecules</i> , 1999, 32, 4240-4246.	4.8	994
5	Stereospezifische Olefinpolymerisation mit chiralen Metallocenkatalysatoren. <i>Angewandte Chemie</i> , 1995, 107, 1255-1283.	2.0	583
6	Rapid prototyping of scaffolds derived from thermoreversible hydrogels and tailored for applications in tissue engineering. <i>Biomaterials</i> , 2002, 23, 4437-4447.	11.4	547
7	Green Polymer Chemistry and Bio-based Plastics: Dreams and Reality. <i>Macromolecular Chemistry and Physics</i> , 2013, 214, 159-174.	2.2	542
8	From Multisite Polymerization Catalysis to Sustainable Materials and All-Polyolefin Composites. <i>Chemical Reviews</i> , 2016, 116, 1398-1433.	47.7	525
9	Functionalized Graphenes and Thermoplastic Nanocomposites Based upon Expanded Graphite Oxide. <i>Macromolecular Rapid Communications</i> , 2009, 30, 316-327.	3.9	482
10	Fracture toughness and failure mechanism of graphene based epoxy composites. <i>Composites Science and Technology</i> , 2014, 97, 90-99.	7.8	451
11	Poly(propylene)/organoclay nanocomposite formation: Influence of compatibilizer functionality and organoclay modification. <i>Macromolecular Materials and Engineering</i> , 2000, 275, 8-17.	3.6	412
12	Morphology and toughness/stiffness balance of nanocomposites based upon anhydride-cured epoxy resins and layered silicates. <i>Macromolecular Chemistry and Physics</i> , 1999, 200, 661-670.	2.2	376
13	Thermal Behaviour of Poly(propylene) Layered Silicate Nanocomposites. <i>Macromolecular Rapid Communications</i> , 2001, 22, 176-180.	3.9	350
14	Cyclic limonene dicarbonate as a new monomer for non-isocyanate oligo- and polyurethanes (NIPU) based upon terpenes. <i>Green Chemistry</i> , 2012, 14, 1447.	9.0	300
15	Flame retardancy through carbon nanomaterials: Carbon black, multiwall nanotubes, expanded graphite, multi-layer graphene and graphene in polypropylene. <i>Polymer Degradation and Stability</i> , 2013, 98, 1495-1505.	5.8	296
16	Linseed and soybean oil-based polyurethanes prepared via the non-isocyanate route and catalytic carbon dioxide conversion. <i>Green Chemistry</i> , 2012, 14, 483.	9.0	265
17	Isocyanate- and Phosgene-Free Routes to Polyfunctional Cyclic Carbonates and Green Polyurethanes by Fixation of Carbon Dioxide. <i>Macromolecular Rapid Communications</i> , 2014, 35, 1238-1254.	3.9	263
18	Catalytic Polymerization and Post Polymerization Catalysis Fifty Years After the Discovery of Ziegler's Catalysts. <i>Macromolecular Chemistry and Physics</i> , 2003, 204, 289-327.	2.2	260

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19	Molecular Nanocapsules Based on Amphiphilic Hyperbranched Polyglycerols. <i>Angewandte Chemie - International Edition</i> , 1999, 38, 3552-3555.	13.8	242
20	Stereospecific Polymerization of Propylene: An Outlook 25 Years after Its Discovery. <i>Angewandte Chemie International Edition in English</i> , 1980, 19, 857-875.	4.4	239
21	Morphology and rheology of polystyrene nanocomposites based upon organoclay. <i>Macromolecular Rapid Communications</i> , 2000, 21, 57-61.	3.9	239
22	Desktop manufacturing of complex objects, prototypes and biomedical scaffolds by means of computer-assisted design combined with computer-guided 3D plotting of polymers and reactive oligomers. <i>Macromolecular Materials and Engineering</i> , 2000, 282, 17-21.	3.6	237
23	Biofunctional rapid prototyping for tissue-engineering applications: 3D bioplotting versus 3D printing. <i>Journal of Polymer Science Part A</i> , 2004, 42, 624-638.	2.3	236
24	Polynitrile- and Polyamine-Functional Poly(trimethylene imine) Dendrimers. <i>Angewandte Chemie International Edition in English</i> , 1993, 32, 1306-1308.	4.4	234
25	Ethene and Propene Copolymers Containing Silsesquioxane Side Groups. <i>Macromolecules</i> , 1997, 30, 2818-2824.	4.8	231
26	Ancillary Ligand Effect on Single-Site Styrene Polymerization: Isospecificity of Group 4 Metal Bis(phenolate) Catalysts. <i>Journal of the American Chemical Society</i> , 2003, 125, 4964-4965.	13.7	231
27	Polyolefin nanocomposites formed by melt compounding and transition metal catalyzed ethene homo- and copolymerization in the presence of layered silicates. <i>Macromolecular Rapid Communications</i> , 1999, 20, 423-430.	3.9	222
28	Polyurethane Nanocomposites Containing Laminated Anisotropic Nanoparticles Derived from Organophilic Layered Silicates. <i>Advanced Materials</i> , 1999, 11, 49-52.	21.0	220
29	Angiogenic and inflammatory response to biodegradable scaffolds in dorsal skinfold chambers of mice. <i>Biomaterials</i> , 2006, 27, 5027-5038.	11.4	211
30	A mesogen-functionized carbosilane dendrimer: A dendritic liquid crystalline polymer. <i>Advanced Materials</i> , 1996, 8, 414-416.	21.0	193
31	Glycerol-, pentaerythritol- and trimethylolpropane-based polyurethanes and their cellulose carbonate composites prepared via the non-isocyanate route with catalytic carbon dioxide fixation. <i>Green Chemistry</i> , 2013, 15, 934.	9.0	168
32	Melt compounding of syndiotactic polypropylene nanocomposites containing organophilic layered silicates and in situ formed core/shell nanoparticles. <i>Polymer</i> , 2002, 43, 2909-2916.	3.8	165
33	On the β -Phase of Isotactic Polypropylene. <i>Macromolecules</i> , 1996, 29, 8425-8434.	4.8	161
34	Functional Poly(ethylene oxide) Multiarm Star Polymers: Core-First Synthesis Using Hyperbranched Polyglycerol Initiators. <i>Macromolecules</i> , 2000, 33, 315-320.	4.8	159
35	Combustion behaviour of EVA/fluorohectorite nanocomposites. <i>Polymer Degradation and Stability</i> , 2001, 74, 413-417.	5.8	144
36	Emulsifier-Free Graphene Dispersions with High Graphene Content for Printed Electronics and Freestanding Graphene Films. <i>Advanced Functional Materials</i> , 2012, 22, 1136-1144.	14.9	144

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37	Flame-Retardancy Properties of Intumescent Ammonium Poly(Phosphate) and Mineral Filler Magnesium Hydroxide in Combination with Graphene. <i>Polymers</i> , 2014, 6, 2875-2895.	4.5	144
38	Carbosilane Dendrimers with Perfluoroalkyl End Groups. Core-Shell Macromolecules with Generation-Dependent Order. <i>Macromolecules</i> , 1997, 30, 6860-6868.	4.8	142
39	Copolymerization of Ethene with Styrene Using Methylaluminumoxane-Activated Bis(phenolate) Complexes. <i>Macromolecules</i> , 1997, 30, 1562-1569.	4.8	140
40	The use of microwave irradiation for the easy synthesis of graphene-supported transition metal nanoparticles in ionic liquids. <i>Carbon</i> , 2011, 49, 1326-1332.	10.3	140
41	Carbon black, multiwall carbon nanotubes, expanded graphite and functionalized graphene flame retarded polypropylene nanocomposites. <i>Polymers for Advanced Technologies</i> , 2013, 24, 916-926.	3.2	132
42	3D printing of high density polyethylene by fused filament fabrication. <i>Additive Manufacturing</i> , 2019, 28, 152-159.	3.0	131
43	Influence of polymerization conditions on the copolymerization of styrene with ethylene using Me ₂ Si(Me ₄ Cp)(N-tert-butyl)TiCl ₂ /methylaluminumoxane Ziegler-Natta catalysts. <i>Macromolecular Chemistry and Physics</i> , 1996, 197, 1071-1083.	2.2	128
44	Hermann Staudinger and the Origin of Macromolecular Chemistry. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 1054-1063.	13.8	125
45	Nine-Membered Titanacyclic Complexes Based on an Ethylene-Bridged Bis(phenolato) Ligand: Synthesis, Structure, and Olefin Polymerization Activity. <i>Organometallics</i> , 1997, 16, 4240-4242.	2.3	122
46	Hyperbranched Polyether-Polyols Based on Polyglycerol: Polarity Design by Block Copolymerization with Propylene Oxide. <i>Macromolecules</i> , 2000, 33, 309-314.	4.8	115
47	Morphological Stability of Poly(propylene) Nanocomposites. <i>Macromolecular Rapid Communications</i> , 2001, 22, 519-523.	3.9	114
48	Elastomeric polypropylenes from alumina-supported tetraalkyl Group IVB catalysts. 1. Synthesis and properties of high molecular weight stereoblock homopolymers. <i>Macromolecules</i> , 1989, 22, 3851-3858.	4.8	112
49	Propene polymerization using homogeneous MAO-activated metallocene catalysts: Me ₂ Si(Benz[e]Indenyl)2ZrCl ₂ /MAO vs. Me ₂ Si(2-Me-Benz[e]Indenyl)2ZrCl ₂ /MAO. <i>Journal of Polymer Science Part A</i> , 1995, 33, 1305-1317.	2.3	110
50	Thermal Properties of the Homologous Series of 8-fold Alkyl-Substituted Octasilsesquioxanes. <i>Chemistry of Materials</i> , 1997, 9, 1475-1479.	6.7	109
51	Toughened Epoxy Hybrid Nanocomposites Containing Both an Organophilic Layered Silicate Filler and a Compatibilized Liquid Rubber. <i>Macromolecules</i> , 2003, 36, 7205-7211.	4.8	109
52	Iron Nanoparticles Supported on Chemically Derived Graphene: Catalytic Hydrogenation with Magnetic Catalyst Separation. <i>Advanced Synthesis and Catalysis</i> , 2011, 353, 523-527.	4.3	107
53	Acid-sensitive polyethylene glycol conjugates of doxorubicin: preparation, in vitro efficacy and intracellular distribution. <i>Bioorganic and Medicinal Chemistry</i> , 1999, 7, 2517-2524.	3.0	106
54	High Purity Limonene Dicarboxylate as Versatile Building Block for Sustainable Non-Isocyanate Polyhydroxyurethane Thermosets and Thermoplastics. <i>Macromolecules</i> , 2017, 50, 944-955.	4.8	105

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55	Morphology and mechanical properties of blends of isotactic or syndiotactic polypropylene with SEBS block copolymers. <i>Journal of Applied Polymer Science</i> , 1996, 59, 1117-1128.	2.6	104
56	The influence of silicate modification and compatibilizers on mechanical properties and morphology of anhydride-cured epoxy nanocomposites. <i>Macromolecular Materials and Engineering</i> , 2000, 280-281, 41-46.	3.6	104
57	Nanophase Separated Amphiphilic Conetwork Coatings and Membranes. <i>Macromolecules</i> , 2005, 38, 2431-2438.	4.8	104
58	Synthesis of amine-cured, epoxy-layered silicate nanocomposites: The influence of the silicate surface modification on the properties. <i>Journal of Applied Polymer Science</i> , 2002, 86, 2643-2652.	2.6	101
59	3D Micro-Extrusion of Graphene-based Active Electrodes: Towards High-Rate AC Line Filtering Performance Electrochemical Capacitors. <i>Advanced Functional Materials</i> , 2014, 24, 4706-4716.	14.9	98
60	Arylphosphonic Acid-Functionalized Polyelectrolytes as Fuel Cell Membrane Material. <i>Macromolecular Chemistry and Physics</i> , 2007, 208, 1324-1340.	2.2	96
61	Ethylene polymerization catalysts based on nickel(II) 1,4-diazadiene complexes: the influence of the 1,4-diazadiene backbone substituents on structure and reactivity. <i>Journal of Organometallic Chemistry</i> , 1998, 569, 159-167.	1.8	93
62	The influence of regio- and stereoirregularities on the crystallization behaviour of isotactic poly(propylene)s prepared with homogeneous group IVa metallocene/methylaluminoxane Ziegler-Natta catalysts. <i>Macromolecular Chemistry and Physics</i> , 1994, 195, 1433-1441.	2.2	91
63	Translucent acrylic nanocomposites containing anisotropic laminated nanoparticles derived from intercalated layered silicates. <i>Journal of Applied Polymer Science</i> , 2000, 75, 396-405.	2.6	91
64	Transport properties of organic vapors in nanocomposites of organophilic layered silicate and syndiotactic polypropylene. <i>Polymer</i> , 2003, 44, 3679-3685.	3.8	88
65	Poly(ethene-co-norbornene) Obtained with a Constrained Geometry Catalyst. A Study of Reaction Kinetics and Copolymer Properties. <i>Macromolecules</i> , 2002, 35, 2903-2911.	4.8	86
66	Reactive extrusion of polycaprolactone compounds containing wood flour and lignin. <i>Journal of Applied Polymer Science</i> , 2001, 81, 1972-1984.	2.6	85
67	Polyethylene Glycol Conjugates of Methotrexate Varying in Their Molecular Weight from MW 750 to MW 40000: Synthesis, Characterization, and Structure-Activity Relationships in Vitro and in Vivo. <i>Bioconjugate Chemistry</i> , 2002, 13, 773-785.	3.6	85
68	Novel Graphene UHMWPE Nanocomposites Prepared by Polymerization Filling Using Single-Site Catalysts Supported on Functionalized Graphene Nanosheet Dispersions. <i>Macromolecules</i> , 2012, 45, 6878-6887.	4.8	85
69	Mono- and Multilayers of Mesogen-Substituted Carbosilane Dendrimers on Mica. <i>Macromolecules</i> , 1996, 29, 8069-8076.	4.8	83
70	Influence of Indenyl Ligand Substitution Pattern on Metallocene-Catalyzed Ethene Copolymerization with 1-Octene. <i>Macromolecules</i> , 1997, 30, 3164-3168.	4.8	83
71	Copolymerization of ethene with styrene using different methylalumoxane activated half-sandwich complexes. <i>Journal of Polymer Science Part A</i> , 1997, 35, 1571-1578.	2.3	83
72	Reversible and irreversible deactivation of propene polymerization using homogeneous Cp ₂ ZrCl ₂ /methylaluminoxane Ziegler-Natta catalysts. <i>Journal of Organometallic Chemistry</i> , 1991, 417, C7-C11.	1.8	82

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73	Morphology and phase behaviour of blends of syndiotactic and isotactic polypropylene: 1. X-ray scattering, light microscopy, atomic force microscopy, and scanning electron microscopy. <i>Polymer</i> , 1996, 37, 2627-2634.	3.8	82
74	Novel polyolefin materials via catalysis and reactive processing. <i>Macromolecular Symposia</i> , 1998, 129, 1-28.	0.7	80
75	Stereospecific Styrene Enchainment at a Titanium Site within a Helical Ligand Framework: Evidence for the Formation of Homochiral Polystyrene. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 4790-4793.	13.8	80
76	Formation of CdS nanoclusters in phase-separated poly(2-hydroxyethyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 627 Td (methacrylate)-l-p Physics, 2001, 39, 1429-1436.	2.1	79
77	Reactive core/shell type hyperbranched blockcopolyethers as new liquid rubbers for epoxy toughening. <i>Polymer</i> , 2004, 45, 2155-2164.	3.8	79
78	Hyperbranched polycarbosilane macromonomers bearing oxazoline functionalities. <i>Macromolecular Rapid Communications</i> , 1997, 18, 253-260.	3.9	75
79	The influence of stereoregularity on the miscibility of poly(propylene)s. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1997, 35, 1135-1144.	2.1	75
80	Chiral Hyperbranched Dendron Analogues. <i>Macromolecules</i> , 2000, 33, 253-254.	4.8	75
81	Multifunctional POSS Cyclic Carbonates and Non-Isocyanate Polyhydroxyurethane Hybrid Materials. <i>Macromolecules</i> , 2016, 49, 742-751.	4.8	75
82	Silsesquioxane-Based Amphiphiles. <i>Langmuir</i> , 1999, 15, 4752-4756.	3.5	74
83	Polyurethane nanocomposites prepared from solvent-free stable dispersions of functionalized graphene nanosheets in polyols. <i>Polymer</i> , 2012, 53, 4931-4939.	3.8	74
84	Acrylic Nanocomposite Resins for Use in Stereolithography and Structural Light Modulation Based Rapid Prototyping and Rapid Manufacturing Technologies. <i>Advanced Functional Materials</i> , 2008, 18, 2390-2397.	14.9	72
85	Functionalized Graphene and Carbon Materials as Components of Styrene-Butadiene Rubber Nanocomposites Prepared by Aqueous Dispersion Blending. <i>Macromolecular Materials and Engineering</i> , 2014, 299, 319-329.	3.6	72
86	Improvement of Vascularization of PLGA Scaffolds by Inoculation of In Situ-Preformed Functional Blood Vessels With the Host Microvasculature. <i>Annals of Surgery</i> , 2008, 248, 939-948.	4.2	71
87	The influence of layered, spherical, and tubular carbon nanomaterials' concentration on the flame retardancy of polypropylene. <i>Polymer Composites</i> , 2015, 36, 1230-1241.	4.6	69
88	Aminofunctional linear low density polyethylene via metallocene-catalysed ethene copolymerization with N,N-bis(trimethylsilyl)-1-amino-10-undecene. <i>Polymer</i> , 1997, 38, 2455-2459.	3.8	68
89	Fiber spinning from poly(propylene)-organoclay nanocomposite. <i>Journal of Applied Polymer Science</i> , 2003, 89, 604-611.	2.6	68
90	Self-Initiated Free Radical Grafting of Styrene Homo- and Copolymers onto Functionalized Graphene. <i>Macromolecules</i> , 2013, 46, 5488-5496.	4.8	68

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91	Flexible and Bio-Based Nonisocyanate Polyurethane (NIPU) Foams. <i>Macromolecular Materials and Engineering</i> , 2016, 301, 944-952.	3.6	65
92	Tailoring Hydrocarbon Polymers and All-Hydrocarbon Composites for Circular Economy. <i>Macromolecular Rapid Communications</i> , 2019, 40, e1800608.	3.9	65
93	Synthesis and Thermal Behavior of Esterified Aliphatic Hyperbranched Polyether Polyols. <i>Macromolecules</i> , 2000, 33, 1330-1337.	4.8	64
94	Bone repair by cell-seeded 3D-bioprinted composite scaffolds made of collagen treated tricalciumphosphate or tricalciumphosphate-chitosan-collagen hydrogel or PLGA in ovine critical-sized calvarial defects. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2010, 93B, 520-530.	3.4	64
95	Erythritol Dicarboxylate as Intermediate for Solvent- and Isocyanate-Free Tailoring of Bio-Based Polyhydroxyurethane Thermoplastics and Thermoplastic Elastomers. <i>Macromolecules</i> , 2017, 50, 2296-2303.	4.8	64
96	Sulfur-Functionalized Graphenes as Macro-Chain-Transfer and RAFT Agents for Producing Graphene Polymer Brushes and Polystyrene Nanocomposites. <i>Macromolecules</i> , 2012, 45, 7083-7090.	4.8	63
97	Hyperbranched Polyether Polyols with Liquid Crystalline Properties. <i>Angewandte Chemie - International Edition</i> , 1999, 38, 2928-2930.	13.8	62
98	Metallized Organoclays as New Intermediates for Aqueous Nanohybrid Dispersions, Nanohybrid Catalysts and Antimicrobial Polymer Hybrid Nanocomposites. <i>Macromolecular Materials and Engineering</i> , 2005, 290, 875-883.	3.6	62
99	Vascularization and biocompatibility of scaffolds consisting of different calcium phosphate compounds. <i>Journal of Biomedical Materials Research - Part A</i> , 2008, 86A, 1002-1011.	4.0	60
100	Donor- and acceptor-modified metallocene-based homogeneous Ziegler-Natta catalysts. <i>Makromolekulare Chemie Macromolecular Symposia</i> , 1993, 66, 191-202.	0.6	59
101	Stereospecific post-metallocene polymerization catalysts: the example of isospecific styrene polymerization. <i>Journal of Organometallic Chemistry</i> , 2004, 689, 4636-4641.	1.8	59
102	Scale-up and purification of graphite oxide as intermediate for functionalized graphene. <i>Carbon</i> , 2014, 75, 432-442.	10.3	59
103	Morphology and phase behaviour of blends of syndiotactic and isotactic polypropylene: 2. Differential scanning calorimetry, light transmission measurements, and PVT measurements. <i>Polymer</i> , 1996, 37, 2635-2640.	3.8	58
104	Functionalized Graphene and Carbon Materials as Additives for Melt-Extruded Flame Retardant Polypropylene. <i>Macromolecular Materials and Engineering</i> , 2013, 298, 1322-1334.	3.6	58
105	Influence of n-Alkyl Branches on Glass-Transition Temperatures of Branched Polyethylenes Prepared by Means of Metallocene- and Palladium-Based Catalysts. <i>Macromolecules</i> , 2000, 33, 1254-1261.	4.8	57
106	Highly Efficient Multivalent 2D Nanosystems for Inhibition of Orthopoxvirus Particles. <i>Advanced Healthcare Materials</i> , 2016, 5, 2922-2930.	7.6	57
107	Nanocellulose Aerogels for Supporting Iron Catalysts and In Situ Formation of Polyethylene Nanocomposites. <i>Advanced Functional Materials</i> , 2017, 27, 1605586.	14.9	57
108	Consequences of seeded cell type on vascularization of tissue engineering constructs in vivo. <i>Microvascular Research</i> , 2009, 78, 180-190.	2.5	55

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109	Graphene-Supported Dual-Site Catalysts for Preparing Self-Reinforcing Polyethylene Reactor Blends Containing UHMWPE Nanoplatelets and in Situ UHMWPE Shish-Kebab Nanofibers. <i>Macromolecules</i> , 2014, 47, 4979-4986.	4.8	55
110	Light-Fueled, Spatiotemporal Modulation of Mechanical Properties and Rapid Self-Healing of Graphene-Doped Supramolecular Elastomers. <i>Advanced Functional Materials</i> , 2017, 27, 1700767.	14.9	55
111	Morphology of syndiotactic polypropylene. <i>Polymer</i> , 1995, 36, 3795-3801.	3.8	54
112	Renewable resource-based epoxy resins derived from multifunctional poly(4-hydroxybenzoates). <i>Green Chemistry</i> , 2013, 15, 910.	9.0	54
113	Semicrystalline Non-Isocyanate Polyhydroxyurethanes as Thermoplastics and Thermoplastic Elastomers and Their Use in 3D Printing by Fused Filament Fabrication. <i>Macromolecules</i> , 2019, 52, 320-331.	4.8	53
114	Synthesis and In vitro efficacy of acid-Sensitive poly(ethylene glycol) paclitaxel conjugates. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2003, 13, 355-360.	2.2	52
115	Isocyanate-Free Route to Poly(carbohydrate-urethane) Thermosets and 100% Bio-Based Coatings Derived from Glycerol Feedstock. <i>Macromolecules</i> , 2016, 49, 7268-7276.	4.8	52
116	Title is missing!. <i>Die Makromolekulare Chemie Rapid Communications</i> , 1993, 14, 503-509.	1.1	51
117	Polyfunctional Acrylic Non-isocyanate Hydroxyurethanes as Photocurable Thermosets for 3D Printing. <i>Macromolecules</i> , 2019, 52, 3288-3297.	4.8	51
118	Mesoporous Silica Supported Multiple Single-Site Catalysts and Polyethylene Reactor Blends with Tailor-Made Trimodal and Ultra-Broad Molecular Weight Distributions. <i>Macromolecular Rapid Communications</i> , 2010, 31, 1359-1363.	3.9	50
119	Class Transition Temperature Depression of Elastomers Blended with Poly(propene)s of Different Stereoregularities. <i>Macromolecules</i> , 1999, 32, 1252-1259.	4.8	49
120	Tailored Nanostructured HDPE Wax/UHMWPE Reactor Blends as Additives for Melt-Processable All-Polyethylene Composites and in Situ UHMWPE Fiber Reinforcement. <i>Macromolecules</i> , 2017, 50, 8129-8139.	4.8	49
121	Hyperbranched Polymeric Ionic Liquids with Onion-like Topology as Transporters and Compartmentalized Systems. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 455-458.	13.8	48
122	Influence of indenyl ligand substitution pattern on metallocene-catalyzed propene copolymerization with 1-octene. <i>Macromolecular Chemistry and Physics</i> , 1997, 198, 1121-1129.	2.2	47
123	Effect of the C/O ratio in graphene oxide materials on the reinforcement of epoxy-based nanocomposites. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016, 54, 281-291.	2.1	47
124	Thermoplastic cellulose acetate and cellulose acetate compounds prepared by reactive processing. <i>Journal of Applied Polymer Science</i> , 1997, 64, 231-242.	2.6	46
125	Copolymerization of ethylene with styrene catalyzed by a linked bis(phenolato) titanium catalyst. <i>Journal of Polymer Science Part A</i> , 2006, 44, 1908-1913.	2.3	46
126	Graphene Nanocomposites Prepared From Blends of Polymer Latex with Chemically Reduced Graphite Oxide Dispersions. <i>Macromolecular Materials and Engineering</i> , 2010, 295, 1107-1115.	3.6	46

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127	Triple-Shape Memory Materials via Thermoresponsive Behavior of Nanocrystalline Non-Isocyanate Polyhydroxyurethanes. <i>Macromolecules</i> , 2017, 50, 3598-3606.	4.8	46
128	Effects of VEGF loading on scaffold-confined vascularization. <i>Journal of Biomedical Materials Research - Part A</i> , 2010, 95A, 783-792.	4.0	45
129	Boehmite-based polyethylene nanocomposites prepared by in-situ polymerization. <i>Polymer</i> , 2008, 49, 867-876.	3.8	43
130	Carbonylbiscaprolactam: A Versatile Reagent for Organic Synthesis and Isocyanate-Free Urethane Chemistry. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 5094-5097.	13.8	42
131	Ni(II) and Pd(II) complexes of camphor-derived diazadiene ligands: steric bulk tuning and ethylene polymerization. <i>Inorganic Chemistry Communication</i> , 1998, 1, 431-434.	3.9	41
132	Hybrid materials of platinum nanoparticles and thiol-functionalized graphene derivatives. <i>Carbon</i> , 2014, 66, 285-294.	10.3	38
133	NOVEL POLYPROPYLENE MATERIALS. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 1999, 36, 1613-1639.	2.2	37
134	Online monitoring of Silicone Network Formation by Means of In-Situ Mid-Infrared Spectroscopy. <i>Macromolecular Chemistry and Physics</i> , 2002, 203, 1866-1871.	2.2	37
135	PMMA nanocomposites and gradient materials prepared by means of polysilsesquioxane (POSS) self-assembly. <i>Journal of Materials Science</i> , 2007, 42, 87-92.	3.7	37
136	Layered Gradient Nonwovens of In Situ Crosslinked Electrospun Collagenous Nanofibers Used as Modular Scaffold Systems for Soft Tissue Regeneration. <i>Advanced Functional Materials</i> , 2013, 23, 3277-3285.	14.9	37
137	Thermally Reduced Graphite Oxide and Mechanochemically Functionalized Graphene as Functional Fillers for Epoxy Nanocomposites. <i>Macromolecular Materials and Engineering</i> , 2015, 300, 140-152.	3.6	37
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