Hideyuki Otsuka

List of Publications by Year
in descending order

212 papers	10,413 citations	29994 54 h-index	39575 94 g-index
222 all docs	222 docs citations	222 times ranked	7201 citing authors

#	Article	IF	Citations
1	Mechanochromic cyclodextrins. Chemical Communications, 2022, 58, 3067-3070.	2.2	7
2	Cyclic Polymers Synthesized by Spontaneous Selective Cyclization Approaches. , 2022, , 319-334.		1
3	Mechanochromic elastomers with different thermo- and mechano-responsive radical-type mechanophores. Soft Matter, 2022, 18, 3218-3225.	1.2	4
4	Enhancement of Mechanophore Activation by Electrostatic Interaction. Bulletin of the Chemical Society of Japan, 2022, 95, 646-651.	2.0	3
5	Structure Reconfigurable Mechanochromic Polymer with Shape Memory and Strain-Monitored Function Enabled by a Covalent Adaptable Network. Macromolecules, 2022, 55, 3948-3957.	2.2	6
6	Polymer-Network Toughening and Highly Sensitive Mechanochromism via a Dynamic Covalent Mechanophore and a Multinetwork Strategy. Macromolecules, 2022, 55, 5795-5802.	2.2	22
7	Isolation of hetero-telechelic polyethylene glycol with groups of different reactivity at the chain ends. Polymer Journal, 2022, 54, 1321-1329.	1.3	1
8	Mechanochromic Polymers That Recognize the Duration of the Mechanical Stimulation via Multiple Mechanochromism. Macromolecular Rapid Communications, 2021, 42, e2000429.	2.0	12
9	A Diarylacetonitrile as a Molecular Probe for the Detection of Polymeric Mechanoradicals in the Bulk State through a Radical Chainâ€Transfer Mechanism. Angewandte Chemie, 2021, 133, 2712-2715.	1.6	9
10	A Diarylacetonitrile as a Molecular Probe for the Detection of Polymeric Mechanoradicals in the Bulk State through a Radical Chainâ€Transfer Mechanism. Angewandte Chemie - International Edition, 2021, 60, 2680-2683.	7.2	34
11	Post-polymerization modification of polybenzoxazines with boronic acids supported by Bâ€“N interactions. Polymer Chemistry, 2021, 12, 5266-5270.	1.9	9
12	Fast and Reversible Cross-Linking Reactions of Thermoresponsive Polymers Based on Dynamic Dialkylaminodisulfide Exchange. ACS Applied Polymer Materials, 2021, 3, 888-895.	2.0	12
13	Crystallization-induced mechanofluorescence for visualization of polymer crystallization. Nature Communications, 2021, 12, 126.	5.8	50
14	Effect of bulky 2,6-bis(spirocyclohexyl)-substituted piperidine rings in bis(hindered amino)trisulfide on thermal healability of polymethacrylate networks. Materials Advances, 2021, 2, 7709-7714.	2.6	6
15	Enhancement of Mechanophore Activation in Mechanochromic Dendrimers by Functionalization of Their Surface. Macromolecules, 2021, 54, 1725-1731.	2.2	25
16	InnenrÃ¼cktitelbild: Segmented Polyurethane Elastomers with Mechanochromic and Selfâ€Strengthening Functions (Angew. Chem. 15/2021). Angewandte Chemie, 2021, 133, 8639-8639.	1.6	1
17	Segmented Polyurethane Elastomers with Mechanochromic and Selfâ€Strengthening Functions. Angewandte Chemie, 2021, 133, 8487-8490.	1.6	13
18	Segmented Polyurethane Elastomers with Mechanochromic and Selfâ€Strengthening Functions. Angewandte Chemie - International Edition, 2021, 60, 8406-8409.	7.2	60

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19	Focus on self-healing materials: recent challenges and innovations. Science and Technology of Advanced Materials, 2021, 22, 234-234.	2.8	3
20	Self-Strengthening of Cross-Linked Elastomers via the Use of Dynamic Covalent Macrocyclic Mechanophores. ACS Macro Letters, 2021, 10, 558-563.	2.3	20
21	Mechanophore activation enhanced by hydrogen bonding of diarylurea motifs: An efficient supramolecular forceâ€transducing system. Aggregate, 2021, 2, e50.	5.2	15
22	Visualization of the Necking Initiation and Propagation Processes during Uniaxial Tensile Deformation of Crystalline Polymer Films via the Generation of Fluorescent Radicals. ACS Macro Letters, 2021, 10, 623-627.	2.3	19
23	Polystyrene Functionalized with Diarylacetonitrile for the Visualization of Mechanoradicals and Improved Thermal Stability. ACS Macro Letters, 2021, 10, 744-748.	2.3	16
24	Toughening of Polymer Networks by Freezing-induced Monomer Insertion. Chemistry Letters, 2021, 50, 1223-1225.	0.7	1
25	Mechanical Performance and Visual Fracture Warning Function of Mechanochromic Stimuli-Recovery Polymer Networks. Macromolecules, 2021, 54, 8664-8674.	2.2	13
26	Synthetic Strategy for Mechanically Interlocked Cyclic Polymers via the Ring-Expansion Polymerization of Macrocycles with a Bis(hindered amino)disulfide Linker. Macromolecules, 2021, 54, 8154-8163.	2.2	6
27	Non-symmetric mechanophores prepared from radical-type symmetric mechanophores: bespoke mechanofunctional polymers. Chemical Communications, 2021, 57, 2899-2902.	2.2	14
28	Postmodification of Polymer Networks via the Freezing-Induced Generation of Radicals. ACS Applied Polymer Materials, 2021, 3, 594-598.	2.0	12
29	Topology Transformation toward Cyclic, Figure-Eight-Shaped, and Cross-Linked Polymers Based on the Dynamic Behavior of a Bis(hindered amino)disulfide Linker. Macromolecules, 2021, 54, 9992-10000.	2.2	10
30	Mechanochemical Reactions of Bis(9-methylphenyl-9-fluorenyl) Peroxides and Their Applications in Cross-Linked Polymers. Journal of the American Chemical Society, 2021, 143, 17744-17750.	6.6	30
31	Plastics to fertilizers: chemical recycling of a bio-based polycarbonate as a fertilizer source. Green Chemistry, 2021, 23, 9030-9037.	4.6	12
32	Diarylbiindolinones as Substituentâ€Tunable Mechanochromophores and Their Application in Mechanochromic Polymers. Macromolecular Rapid Communications, 2020, 41, 1900460.	2.0	22
33	A Strategy toward Cyclic Topologies Based on the Dynamic Behavior of a Bis(hindered amino)disulfide Linker. Angewandte Chemie - International Edition, 2020, 59, 4269-4273.	7.2	31
34	Fusion of Different Crosslinked Polymers Based on Dynamic Disulfide Exchange. Angewandte Chemie - International Edition, 2020, 59, 4294-4298.	7.2	48
35	Visualization and Quantitative Evaluation of Toughening Polymer Networks by a Sacrificial Dynamic Cross-Linker with Mechanochromic Properties. ACS Macro Letters, 2020, 9, 1108-1113.	2.3	36
36	Structural reorganization and crack-healing properties of hydrogels based on dynamic diselenide linkages. Science and Technology of Advanced Materials, 2020, 21, 450-460.	2.8	8

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37	Characterization of <i>N</i>-phenylmaleimide-terminated poly(ethylene glycol)s and their application to a tetra-arm poly(ethylene glycol) gel. Soft Matter, 2020, 16, 10869-10875.	1.2	8
38	Energy Dissipation and Mechanoresponsive Color Evaluation of a Poly(<i>n</i>-hexyl Methacrylate) Soft Material Enhanced by a Mechanochromic Cross-Linker with Dynamic Covalent Bonds. Macromolecules, 2020, 53, 9313-9324.	2.2	14
39	Use of Bis(2,2,6,6-tetramethylpiperidin-1-yl)trisulfide as a Dynamic Covalent Bond for Thermally Healable Cross-Linked Polymer Networks. ACS Applied Polymer Materials, 2020, 2, 4054-4061.	2.0	16
40	Polybutadiene rubbers with urethane linkages prepared by a dynamic covalent approach for tire applications. Polymer, 2020, 202, 122700.	1.8	14
41	Rational Entry to Cyclic Polymers via Thermally Induced Radical Ring-Expansion Polymerization of Macrocycles with One Bis(hindered amino)disulfide Linkage. Macromolecules, 2020, 53, 4670-4677.	2.2	16
42	Synthesis of well-defined mechanochromic polymers based on a radical-type mechanochromophore by RAFT polymerization: living radical polymerization from a polymerization inhibitor. Polymer Chemistry, 2020, 11, 4290-4296.	1.9	3
43	Visualization of the slide-ring effect: a study on movable cross-linking points using mechanochromism. Chemical Communications, 2020, 56, 3361-3364.	2.2	16
44	RÃ¼cktitelbild: Fusion of Different Crosslinked Polymers Based on Dynamic Disulfide Exchange (Angew.) Tj ETQq0 0 0 rgBT /Overlock 10	1.6	0
45	Functionalization of amine-cured epoxy resins by boronic acids based on dynamic dioxazaborocane formation. Polymer Chemistry, 2020, 11, 5356-5364.	1.9	23
46	A Strategy toward Cyclic Topologies Based on the Dynamic Behavior of a Bis(hindered amino)disulfide Linker. Angewandte Chemie, 2020, 132, 4299-4303.	1.6	4
47	Fusion of Different Crosslinked Polymers Based on Dynamic Disulfide Exchange. Angewandte Chemie, 2020, 132, 4324-4328.	1.6	10
48	Segmented polyurethanes containing movable rotaxane units on the main chain: Synthesis, structure, and mechanical properties. Polymer, 2020, 193, 122358.	1.8	10
49	Using the dynamic behavior of macrocyclic monomers with a bis(hindered amino)disulfide linker for the preparation of end-functionalized polymers. Polymer Chemistry, 2020, 11, 3557-3563.	1.9	12
50	Internal Structure of Hyaluronic Acid Hydrogels Controlled by Iron(III) Ionâ€“Catechol Complexation. Macromolecules, 2019, 52, 6502-6513.	2.2	11
51	Maleimidophenyl isocyanates as postpolymerization modification agents and their applications in the synthesis of block copolymers. Journal of Polymer Science Part A, 2019, 57, 2396-2406.	2.5	7
52	Multicolor Mechanochromism of a Polymer/Silica Composite with Dual Distinct Mechanophores. Journal of the American Chemical Society, 2019, 141, 1898-1902.	6.6	105
53	Network reorganization in cross-linked polymer/silica composites based on exchangeable dynamic covalent carbonâ€“carbon bonds. Polymer, 2019, 177, 10-18.	1.8	8
54	Mechanochromic dendrimers: the relationship between primary structure and mechanochromic properties in the bulk. Chemical Communications, 2019, 55, 6831-6834.	2.2	39

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55	Introducing static cross-linking points into dynamic covalent polymer gels that display freezing-induced mechanofluorescence: enhanced force transmission efficiency and stability. Polymer Chemistry, 2019, 10, 2636-2640.	1.9	32
56	Mechanofluorescent polymer/silsesquioxane composites based on tetraarylsuccinonitrile. Materials Chemistry Frontiers, 2019, 3, 2681-2685.	3.2	19
57	A Guiding Principle for Strengthening Crosslinked Polymers: Synthesis and Application of Mobilityâ€Controlling Rotaxane Crosslinkers. Angewandte Chemie - International Edition, 2019, 58, 2765-2768.	7.2	32
58	A Guiding Principle for Strengthening Crosslinked Polymers: Synthesis and Application of Mobilityâ€Controlling Rotaxane Crosslinkers. Angewandte Chemie, 2019, 131, 2791-2794.	1.6	9
59	Photoinduced Regulation of the Heat Resistance in Polymer Networks with Diarylethene-Conjugated Reversible Covalent Cross-Links. ACS Macro Letters, 2019, 8, 1-6.	2.3	8
60	Reactive Polyurethanes with Dynamic Covalent Linkages. Journal of the Adhesion Society of Japan, 2019, 55, 168-174.	0.0	0
61	Multicolor Mechanochromic Polymer Blends That Can Discriminate between Stretching and Grinding. ACS Macro Letters, 2018, 7, 556-560.	2.3	82
62	Reorganizable and stimuli-responsive polymers based on dynamic carbonâ€"carbon linkages in diarylbibenzofuranones. Polymer, 2018, 137, 395-413.	1.8	43
63	Mechanochromic Polymers That Turn Green Upon the Dissociation of Diarylbibenzothiophenonyl: The Missing Piece toward Rainbow Mechanochromism. Chemistry - A European Journal, 2018, 24, 3170-3173.	1.7	75
64	Modification of amine-cured epoxy resins by boronic acids based on their reactivity with intrinsic diethanolamine units. Chemical Communications, 2018, 54, 12930-12933.	2.2	14
65	Thermally Stable Radical-Type Mechanochromic Polymers Based on Difluorenylsuccinonitrile. ACS Macro Letters, 2018, 7, 1359-1363.	2.3	57
66	Enhancement of the stimuli-responsiveness and photo-stability of dynamic diselenide bonds and diselenide-containing polymers by neighboring aromatic groups. Polymer, 2018, 154, 281-290.	1.8	30
67	The photoregulation of a mechanochemical polymer scission. Nature Communications, 2018, 9, 3504.	5.8	59
68	Freezing-Induced Mechanoluminescence of Polymer Gels. ACS Macro Letters, 2018, 7, 1087-1091.	2.3	59
69	Repairing and Reprocessing of Cross-linked Polymers Based on Thermally Exchangeable Disulfide Bond. The Proceedings of the Materials and Processing Conference, 2018, 2018.26, 815.	0.0	0
70	Thermally Adjustable Dynamic Disulfide Linkages Mediated by Highly Airâ€Stable 2,2,6,6â€Tetramethylpiperidineâ€1â€sulfanyl (TEMPS) Radicals. Angewandte Chemie - International Edition, 2017, 56, 2016-2021.	7.2	85
71	Thermally Adjustable Dynamic Disulfide Linkages Mediated by Highly Airâ€Stable 2,2,6,6â€Tetramethylpiperidineâ€1â€sulfanyl (TEMPS) Radicals. Angewandte Chemie, 2017, 129, 2048-2053.	1.6	12
72	Synthesis of rotaxane cross-linked polymers with supramolecular cross-linkers based on Î³-CD and PTHF macromonomers: The effect of the macromonomer structure on the polymer properties. Polymer, 2017, 128, 392-396.	1.8	44

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73	Frontispiece: Thermally Adjustable Dynamic Disulfide Linkages Mediated by Highly Airâ€Stable 2,2,6,6â€Tetramethylpiperidineâ€1â€sulfanyl (TEMPS) Radicals. Angewandte Chemie - International Edition, 2017, 56, .	7.2	1
74	Frontispiz: Thermally Adjustable Dynamic Disulfide Linkages Mediated by Highly Airâ€Stable 2,2,6,6â€Tetramethylpiperidineâ€1â€sulfanyl (TEMPS) Radicals. Angewandte Chemie, 2017, 129, .	1.6	0
75	Photoregulation of Retro-Dielsâ€"Alder Reaction at the Center of Polymer Chains. Chemistry Letters, 2017, 46, 992-994.	0.7	9
76	Thermally Healable and Reprocessable Bis(hindered amino)disulfide-Cross-Linked Polymethacrylate Networks. ACS Macro Letters, 2017, 6, 1280-1284.	2.3	83
77	Tetraarylsuccinonitriles as mechanochromophores to generate highly stable luminescent carbon-centered radicals. Chemical Communications, 2017, 53, 11885-11888.	2.2	93
78	Design of Mechanochromic Elastomers Based on Dynamic Covalent Chemistry. Nippon Gomu Kyokaishi, 2017, 90, 195-199.	0.0	0
79	Enhancing Mechanochemical Activation in the Bulk State by Designing Polymer Architectures. ACS Macro Letters, 2016, 5, 1124-1127.	2.3	92
80	Polymerâ€"Inorganic Composites with Dynamic Covalent Mechanochromophore. Macromolecules, 2016, 49, 5903-5911.	2.2	86
81	Autonomously Substitutable Organosilane Thin Films Based on Dynamic Covalent Diarylbibenzofuranone Units. Chemistry Letters, 2016, 45, 36-38.	0.7	8
82	Repeatable mechanochemical activation of dynamic covalent bonds in thermoplastic elastomers. Chemical Communications, 2016, 52, 10482-10485.	2.2	76
83	Facile modification and fixation of diaryl disulphide-containing dynamic covalent polyesters by iodine-catalysed insertion-like addition reactions of styrene derivatives to disulphide units. Polymer Chemistry, 2016, 7, 4661-4666.	1.9	6
84	Degradable epoxy resins prepared from diepoxide monomer with dynamic covalent disulfide linkage. Polymer, 2016, 82, 319-326.	1.8	130
85	Triggered Structural Control of Dynamic Covalent Aromatic Polyamides: Effects of Thermal Reorganization Behavior in Solution and Solid States. Macromolecules, 2016, 49, 2153-2161.	2.2	14
86	Radical crossover reactions of alkoxyamine-based dynamic covalent polymer brushes on nanoparticles and the effect on their dispersibility. Polymer Journal, 2016, 48, 147-155.	1.3	9
87	Visualization and Quantitative Evaluation of Chain Scission and Healing Processes in Polymeric Materials. The Proceedings of Mechanical Engineering Congress Japan, 2016, 2016, J0460301.	0.0	0
88	Macromolecular Design of Alkoxyamine-Containing Radically Reactive Polymers Based on Dynamic Covalent Chemistry. Kobunshi Ronbunshu, 2015, 72, 341-353.	0.2	0
89	Diarylbibenzofuranone-Based Dynamic Covalent Polymer Gels Prepared via Radical Polymerization and Subsequent Polymer Reaction. Gels, 2015, 1, 58-68.	2.1	9
90	Synthesis of Vinylic Macromolecular Rotaxane Cross-Linkers Endowing Network Polymers with Toughness. ACS Macro Letters, 2015, 4, 598-601.	2.3	76

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91	Mechanophores with a Reversible Radical System and Freezingâ€Induced Mechanochemistry in Polymer Solutions and Gels. Angewandte Chemie - International Edition, 2015, 54, 6168-6172.	7.2	202
92	Self-Healing of a Cross-Linked Polymer with Dynamic Covalent Linkages at Mild Temperature and Evaluation at Macroscopic and Molecular Levels. Macromolecules, 2015, 48, 5632-5639.	2.2	125
93	Mechanochromic Dynamic Covalent Elastomers: Quantitative Stress Evaluation and Autonomous Recovery. ACS Macro Letters, 2015, 4, 1307-1311.	2.3	142
94	Metathesis-driven scrambling reactions between polybutadiene or naturally occurring polyisoprene and olefin-containing polyurethane. Polymer, 2015, 78, 145-153.	1.8	34
95	Polyurethane Nanocomposites Reinforced with Surface Modified Halloysite Nanotubes. Science of Advanced Materials, 2015, 7, 974-980.	0.1	8
96	Reversible cross-linking reactions of alkoxyamine-appended polymers under bulk conditions for transition between flow and rubber-like states. Polymer, 2014, 55, 1474-1480.	1.8	14
97	Synthesis of polyethylene/polyester copolymers through main chain exchange reactions via olefin metathesis. Polymer, 2014, 55, 6245-6251.	1.8	35
98	Network Reorganization of Dynamic Covalent Polymer Gels with Exchangeable Diarylbibenzofuranone at Ambient Temperature. Journal of the American Chemical Society, 2014, 136, 11839-11845.	6.6	90
99	Radical crossover reactions of a dynamic covalent polymer brush for reversible hydrophilicity control. Polymer, 2014, 55, 4586-4592.	1.8	12
100	Preparation and characterization of polycarbonate nanocomposites based on surface-modified halloysite nanotubes. Polymer Journal, 2014, 46, 307-312.	1.3	20
101	Reactive Soft Materials Based on Exchangeable Covalent Bonds. Nippon Gomu Kyokaishi, 2014, 87, 29-32.	0.0	1
102	Plasticizer-Promoted Thermal Crosslinking of a Dynamic Covalent Polymer with Complementarily Reactive Alkoxyamine Units in the Side Chain under Bulk Conditions. Bulletin of the Chemical Society of Japan, 2014, 87, 1023-1025.	2.0	6
103	Perfluoropolyether-infused nano-texture: a versatile approach to omniphobic coatings with low hysteresis and high transparency. Chemical Communications, 2013, 49, 597-599.	2.2	99
104	Preparation of novel polyimide hybrid materials by multi-layered charge-transfer complex formation. Polymer Journal, 2013, 45, 839-844.	1.3	14
105	Structural effects of catechol-containing polystyrene gels based on a dual cross-linking approach. Soft Matter, 2013, 9, 1967-1974.	1.2	31
106	Reorganization of polymer structures based on dynamic covalent chemistry: polymer reactions by dynamic covalent exchanges of alkoxyamine units. Polymer Journal, 2013, 45, 879-891.	1.3	113
107	Insertion Metathesis Depolymerization of Aromatic Disulfide-containing Dynamic Covalent Polymers under Weak Intensity Photoirradiation. Chemistry Letters, 2013, 42, 1346-1348.	0.7	34
108	Reversibly Crosslinked Polymeric Micelles Formed by Autonomously Exchangeable Dynamic Covalent Bonds. Chemistry Letters, 2013, 42, 377-379.	0.7	18

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109	Internally Modified Halloysite Nanotubes as Inorganic Nanocontainers for a Flame Retardant. Chemistry Letters, 2013, 42, 121-123.	0.7	46
110	SynthesisandSelf-healingPropertyofCrosslinkedPolymers withAutonomouslyExchangeableDynamicCovalentBonds. Journal of the Adhesion Society of Japan, 2012, 48, 156-162.	0.0	0
111	Changes in Network Structure of Chemical Gels Controlled by Solvent Quality through Photoinduced Radical Reshuffling Reactions of Trithiocarbonate Units. ACS Macro Letters, 2012, 1, 478-481.	2.3	81
112	Application of imogolite clay nanotubes in organicâ€“inorganic nanohybrid materials. Journal of Materials Chemistry, 2012, 22, 11887.	6.7	68
113	Competition between Oxidation and Coordination in Cross-Linking of Polystyrene Copolymer Containing Catechol Groups. ACS Macro Letters, 2012, 1, 457-460.	2.3	168
114	Dynamic covalent polymer brushes: reversible surface modification of reactive polymer brushes with alkoxyamine-based dynamic covalent bonds. Polymer Chemistry, 2012, 3, 3077.	1.9	31
115	Preparation and Characterization of Imogolite/DNA Hybrid Hydrogels. Biomacromolecules, 2012, 13, 276-281.	2.6	31
116	Surface functionalization of aluminosilicate nanotubes with organic molecules. Beilstein Journal of Nanotechnology, 2012, 3, 82-100.	1.5	20
117	A â€œnon-stickyâ€•superhydrophobic surface prepared by self-assembly of fluoroalkyl phosphonic acid on a hierarchically micro/nanostructured alumina gel film. Chemical Communications, 2012, 48, 6824.	2.2	54
118	Selfâ€Healing of Covalently Crossâ€Linked Polymers by Reshuffling Thiuram Disulfide Moieties in Air under Visible Light. Advanced Materials, 2012, 24, 3975-3980.	11.1	585
119	Selfâ€Healing of Chemical Gels Crossâ€Linked by Diarylbibenzofuranoneâ€Based Triggerâ€Free Dynamic Covalent Bonds at Room Temperature. Angewandte Chemie - International Edition, 2012, 51, 1138-1142.	7.2	431
120	Poly(methyl methacrylate) grafted imogolite nanotubes prepared through surface-initiated ARGET ATRP. Chemical Communications, 2011, 47, 5813.	2.2	54
121	Reversible cross-linking of hydrophilic dynamic covalent polymers with radically exchangeable alkoxyamines in aqueous media. Polymer Chemistry, 2011, 2, 2021.	1.9	42
122	Mesh-size control and functionalization of reorganizable chemical gels by monomer insertion into their cross-linking points. Polymer Chemistry, 2011, 2, 957.	1.9	26
123	Molecular Aggregation States of Imogolite/P3HT Nanofiber Hybrid. Journal of Physics: Conference Series, 2011, 272, 012021.	0.3	7
124	Molecular Aggregation State and Electrical Properties of Terthiophenes/Imogolite Nanohybrids. Bulletin of the Chemical Society of Japan, 2011, 84, 893-902.	2.0	14
125	Surface Modification of Individual Imogolite Nanotubes with Alkyl Phosphate from an Aqueous Solution. Chemistry Letters, 2011, 40, 159-161.	0.7	20
126	Preparation and properties of PVC/PMMA-g-imogolite nanohybrid via surface-initiated radical polymerization. Polymer, 2011, 52, 5543-5550.	1.8	30

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127	Preparation of superparamagnetic Î²-cyclodextrin-functionalized composite nanoparticles with coreâ€"shell structures. Polymer Bulletin, 2011, 66, 1125-1136.	1.7	10
128	Repeatable Photoinduced Selfâ€Healing of Covalently Crossâ€Linked Polymers through Reshuffling of Trithiocarbonate Units. Angewandte Chemie - International Edition, 2011, 50, 1660-1663.	7.2	488
129	Preparation and characterization of cross-linked Î²-cyclodextrin polymer/Fe3O4 composite nanoparticles with core-shell structures. Chinese Chemical Letters, 2011, 22, 217-220.	4.8	13
130	â€œSubstitutableâ€•Polymer Brushes: Reactive Poly(methacrylate) Brushes with Exchangeable Alkoxyamine Units in the Side Chain. Chemistry Letters, 2010, 39, 1209-1211.	0.7	17
131	Application of polymerizable surfactant in the preparation of polystyrene/nano-Fe3O4 composite. Journal Wuhan University of Technology, Materials Science Edition, 2010, 25, 184-187.	0.4	4
132	Influence of magadiite dispersion states on the flammability of polystyrene and polyphenylene ether-polystyrene alloy nanocomposites. Polymer Journal, 2010, 42, 223-231.	1.3	4
133	Arm-replaceable star-like nanogels: arm detachment and arm exchange reactions by dynamic covalent exchanges of alkoxyamine units. Polymer Journal, 2010, 42, 860-867.	1.3	15
134	Imogolite Reinforced Nanocomposites: Multifaceted Green Materials. Materials, 2010, 3, 1709-1745.	1.3	44
135	Solvent-Controlled Formation of Star-like Nanogels via Dynamic Covalent Exchange of PSt-<i>b</i>-PMMA Diblock Copolymers with Alkoxyamine Units in the Side Chain. Macromolecules, 2010, 43, 5470-5473.	2.2	28
136	Intelligent Build-Up of Complementarily Reactive Diblock Copolymers via Dynamic Covalent Exchange toward Symmetrical and Miktoarm Star-like Nanogels. Macromolecules, 2010, 43, 1785-1791.	2.2	62
137	Structure and Properties of Imogolite Nanotubes and Their Application to Polymer Nanocomposites. Topics in Applied Physics, 2010, , 169-190.	0.4	6
138	A dynamic covalent polymer driven by disulfidemetathesis under photoirradiation. Chemical Communications, 2010, 46, 1150-1152.	2.2	275
139	Synthesis and Reaction of Well-defined Copolymers with Thermally Exchangeable Dynamic Covalent Bonds in the Side Chains. ACS Symposium Series, 2009, , 319-329.	0.5	0
140	Dynamic covalent polymers: Reorganizable polymers with dynamic covalent bonds. Progress in Polymer Science, 2009, 34, 581-604.	11.8	458
141	Thermal Degradation Behavior of Polystyrene/Magadiite Nanocomposites Prepared by Surface-initiated Nitroxide-Mediated Radical Polymerization. Polymer Journal, 2009, 41, 555-561.	1.3	19
142	Scrambling reaction between polymers prepared by step-growth and chain-growth polymerizations: macromolecular cross-metathesis between 1,4-polybutadiene and olefin-containing polyester. Chemical Communications, 2009, , 1073.	2.2	70
143	Molecular Aggregation State and Photovoltaic Properties of Chlorophyll-Doped Conducting Poly(3-hexylthiophene)/MCM-41 Nanocomposites. ACS Applied Materials & Interfaces, 2009, 1, 1544-1552.	4.0	5
144	Preparation of hybrid films of aluminosilicate nanofiber and conjugated polymer. Synthetic Metals, 2009, 159, 885-888.	2.1	19

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145	Reorganizable Chemical Polymer Gels Based on Dynamic Covalent Exchange and Controlled Monomer Insertion. Macromolecules, 2009, 42, 8733-8738.	2.2	67
146	Rational approach to star-like nanogels with different arm lengths: formation by dynamic covalent exchange and their imaging. Chemical Communications, 2009, , 689-691.	2.2	37
147	Physicochemical Characterization of Biodegradable Segmented Polyurethanes and Their Blends with Polylactide. Nippon Gomu Kyokaishi, 2009, 82, 349-355.	0.0	0
148	Control of Dispersion State of Silsesquioxane Nanofillers for Stabilization of Polystyrene Thin Films. Langmuir, 2008, 24, 5766-5772.	1.6	48
149	Fabrication of Conjugated Polymer Hybrid Thin Films with Radially Oriented Aluminosilicate Nanofibers by Spin-Assembly. Bulletin of the Chemical Society of Japan, 2008, 81, 1663-1668.	2.0	15
150	Programmed Formation of Nanogels via a Radical Crossover Reaction of Complementarily Reactive Diblock Copolymers. Chemistry Letters, 2007, 36, 774-775.	0.7	27
151	Programmed Thermodynamic Formation and Structure Analysis of Star-like Nanogels with Core Cross-linked by Thermally Exchangeable Dynamic Covalent Bonds. Journal of the American Chemical Society, 2007, 129, 13298-13304.	6.6	102
152	Structure and Dewetting Behavior of Polyhedral Oligomeric Silsesquioxane-Filled Polystyrene Thin Films. Langmuir, 2007, 23, 902-907.	1.6	48
153	Thermal Reorganization and Molecular Weight Control of Dynamic Covalent Polymers Containing Alkoxyamines in Their Main Chains. Macromolecules, 2007, 40, 1429-1434.	2.2	104
154	Preparation of Novel Polymer Hybrids from Imogolite Nanofiber. Polymer Journal, 2007, 39, 1-15.	1.3	52
155	Dewetting Inhibition and Interfacial Structures of Silsesquioxane-terminated Polystyrene Thin Films. Polymer Journal, 2007, 39, 1247-1252.	1.3	18
156	Surface and Interfacial Structures of Silsesquioxane-terminated Polystyrene Thin Films. Transactions of the Materials Research Society of Japan, 2007, 32, 267-270.	0.2	0
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