

# Hatice Mutlu

## List of Publications by Citations

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**Version:** 2024-04-26

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

117  
papers

7,279  
citations

32  
h-index

85  
g-index

127  
ext. papers

8,261  
ext. citations

7.5  
avg, IF

6.7  
L-index

#	Paper	IF	Citations
117	The use of elemental sulfur as an alternative feedstock for polymeric materials. <i>Nature Chemistry</i> , <b>2013</b> , 5, 518-24	17.6	748
116	Temperature- and light-responsive smart polymer materials. <i>Chemical Society Reviews</i> , <b>2013</b> , 42, 7468-83	38.5	732
115	Castor oil as a renewable resource for the chemical industry. <i>European Journal of Lipid Science and Technology</i> , <b>2010</b> , 112, 10-30	3	482
114	o-Nitrobenzyl Alcohol Derivatives: Opportunities in Polymer and Materials Science. <i>Macromolecules</i> , <b>2012</b> , 45, 1723-1736	5.5	411
113	Multi-stimuli responsive polymers – the all-in-one talents. <i>Polymer Chemistry</i> , <b>2014</b> , 5, 25-36	4.9	388
112	Synthesis of pentafluorophenyl(meth)acrylate polymers: New precursor polymers for the synthesis of multifunctional materials. <i>European Polymer Journal</i> , <b>2005</b> , 41, 1569-1575	5.2	324
111	Standing on the shoulders of Hermann Staudinger: Post-polymerization modification from past to present. <i>Journal of Polymer Science Part A</i> , <b>2013</b> , 51, 1-28	2.5	284
110	Sustainable routes to polyurethane precursors. <i>Green Chemistry</i> , <b>2013</b> , 15, 1431	10	260
109	Synthesis of well-defined polymeric activated esters. <i>Journal of Polymer Science Part A</i> , <b>2008</b> , 46, 6677-6687	6.7	258
108	Activated Ester Containing Polymers: Opportunities and Challenges for the Design of Functional Macromolecules. <i>Chemical Reviews</i> , <b>2016</b> , 116, 1434-95	68.1	257
107	Acyclic diene metathesis: a versatile tool for the construction of defined polymer architectures. <i>Chemical Society Reviews</i> , <b>2011</b> , 40, 1404-45	58.5	233
106	CO <sub>2</sub> -Responsive polymers. <i>Macromolecular Rapid Communications</i> , <b>2013</b> , 34, 1118-33	4.8	199
105	CO <sub>2</sub> -Responsive polymer materials. <i>Polymer Chemistry</i> , <b>2017</b> , 8, 12-23	4.9	120
104	Reading polymers: sequencing of natural and synthetic macromolecules. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 13010-9	16.4	115
103	Inverse vulcanization of elemental sulfur with 1,4-diphenylbutadiyne for cathode materials in LiS batteries. <i>RSC Advances</i> , <b>2015</b> , 5, 24718-24722	3.7	114
102	Sulfur Chemistry in Polymer and Materials Science. <i>Macromolecular Rapid Communications</i> , <b>2019</b> , 40, e1800650	4.8	113
101	Toward Self-Healing Hydrogels Using One-Pot Thiol-ene Click and Borax-Diol Chemistry. <i>ACS Macro Letters</i> , <b>2015</b> , 4, 673-678	6.6	104

100	Trends in polymeric shape memory hydrogels and hydrogel actuators. <i>Polymer Chemistry</i> , <b>2019</b> , 10, 1036-1055	4.9	102
99	Unsaturated PA X <sub>20</sub> from Renewable Resources via Metathesis and Catalytic Amidation. <i>Macromolecular Chemistry and Physics</i> , <b>2009</b> , 210, 1019-1025	2.6	93
98	TBD catalysis with dimethyl carbonate: a fruitful and sustainable alliance. <i>Green Chemistry</i> , <b>2012</b> , 14, 1728	10	82
97	Sulfur-Based Polymer Composites from Vegetable Oils and Elemental Sulfur: A Sustainable Active Material for LiS Batteries. <i>Macromolecular Chemistry and Physics</i> , <b>2017</b> , 218, 1600303	2.6	78
96	Three-Component Reactions for Post-Polymerization Modifications.. <i>ACS Macro Letters</i> , <b>2013</b> , 2, 419-422	6.6	76
95	Controlled folding of polystyrene single chains: design of asymmetric covalent bridges. <i>Polymer Chemistry</i> , <b>2012</b> , 3, 1796-1802	4.9	60
94	Self-metathesis of fatty acid methyl esters: full conversion by choosing the appropriate plant oil. <i>RSC Advances</i> , <b>2013</b> , 3, 4927	3.7	58
93	Rapid Mercury(II) Removal by Electrospun Sulfur Copolymers. <i>Polymers</i> , <b>2016</b> , 8,	4.5	58
92	Multifaceted Synthetic Route to Functional Polyacrylates by Transesterification of Poly(pentafluorophenyl acrylates). <i>Macromolecules</i> , <b>2015</b> , 48, 8695-8707	5.5	49
91	Controlled positioning of activated ester moieties on well-defined linear polymer chains. <i>Macromolecular Rapid Communications</i> , <b>2012</b> , 33, 54-60	4.8	48
90	A sulfurEugenol allyl ether copolymer: a material synthesized via inverse vulcanization from renewable resources and its application in LiS batteries. <i>Materials Chemistry Frontiers</i> , <b>2017</b> , 1, 1818-1822	7.8	46
89	Untapped potential for debonding on demand: the wonderful world of azo-compounds. <i>Materials Horizons</i> , <b>2018</b> , 5, 162-183	14.4	38
88	Degradable fluorescent single-chain nanoparticles based on metathesis polymers. <i>Chemical Communications</i> , <b>2017</b> , 53, 775-778	5.8	35
87	Precision PEGylated polymers obtained by sequence-controlled copolymerization and postpolymerization modification. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 9231-5	16.4	34
86	Green chain-shattering polymers based on a self-immolative azobenzene motif. <i>Polymer Chemistry</i> , <b>2016</b> , 7, 2272-2279	4.9	30
85	Photo- and Metallo-responsive N-Alkyl EBisimines as Orthogonally Addressable Main-Chain Functional Groups in Metathesis Polymers. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 1142-5	16.4	30
84	Sequential post-polymerization modification reactions of poly(pentafluorophenyl 4-vinylbenzenesulfonate). <i>Polymer Chemistry</i> , <b>2014</b> , 5, 2320	4.9	29
83	On the Polymerization Behavior of Telomers: Metathesis versus ThiolEne Chemistry. <i>Macromolecules</i> , <b>2012</b> , 45, 1866-1878	5.5	29

82	Ring-opening metathesis polymerization of fatty acid derived monomers. <i>Journal of Polymer Science Part A</i> , <b>2010</b> , 48, 5899-5906	2.5	28
81	CO <sub>2</sub> -Triggered UCST transition of amphiphilic triblock copolymers and their self-assemblies. <i>Polymer Chemistry</i> , <b>2017</b> , 8, 2619-2629	4.9	27
80	Dual-Gated Supramolecular Star Polymers in Aqueous Solution. <i>Macromolecules</i> , <b>2017</b> , 50, 2375-2386	5.5	25
79	CO <sub>2</sub> -Responsive graft copolymers: synthesis and characterization. <i>Polymer Chemistry</i> , <b>2017</b> , 8, 1206-1216	4.9	25
78	Post-polymerization modification of reactive polymers derived from vinylcyclopropane: 1. synthesis and thermo-responsive behaviour. <i>Polymer Chemistry</i> , <b>2013</b> , 4, 2724	4.9	25
77	Copolymers featuring pentafluorophenyl ester and photolabile amine units: synthesis and application as reactive photopatterns. <i>Polymer Chemistry</i> , <b>2013</b> , 4, 891	4.9	25
76	Dynamic covalent single chain nanoparticles based on hetero Diels-Alder chemistry. <i>Chemical Communications</i> , <b>2016</b> , 53, 157-160	5.8	24
75	"Breathing" CO <sub>2</sub> , O <sub>2</sub> , and Light-Responsive Vesicles from a Triblock Copolymer for Rate-Tunable Controlled Release. <i>Macromolecular Rapid Communications</i> , <b>2018</b> , 39, 1700313	4.8	24
74	A Subtractive Photoresist Platform for Micro- and Macroscopic 3D Printed Structures. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1801405	15.6	24
73	Contemporary Photoligation Chemistry: The Visible Light Challenge. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 3700-3709	4.8	23
72	Self-reporting and refoldable profluorescent single-chain nanoparticles. <i>Chemical Science</i> , <b>2018</b> , 9, 4696-4702	4.7	22
71	Fabrication of Chemically Tunable, Hierarchically Branched Polymeric Nanostructures by Multi-branched Anodic Aluminum Oxide Templates. <i>Langmuir</i> , <b>2016</b> , 32, 6437-44	4	22
70	Polybutadiene Functionalization via an Efficient Avenue. <i>ACS Macro Letters</i> , <b>2016</b> , 5, 1146-1151	6.6	22
69	Facile Fabrication of CO <sub>2</sub> -Responsive Nanofibers from Photo-Cross-Linked Poly(pentafluorophenyl acrylate) Nanofibers. <i>ACS Macro Letters</i> , <b>2018</b> , 7, 431-436	6.6	21
68	Lesen von Polymeren: Die Sequenzierung natürlicher und synthetischer Makromoleküle. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 13224-13233	3.6	21
67	Tailoring Properties of Carbon Nanotube Dispersions and Nanocomposites Using Temperature-Responsive Copolymers of Pyrene-Modified Poly(N-cyclopropylacrylamide). <i>Macromolecules</i> , <b>2010</b> , 43, 9447-9453	5.5	21
66	On the synthesis of sequence-controlled poly(vinyl benzyl amine-co-N-substituted maleimides) copolymers. <i>European Polymer Journal</i> , <b>2015</b> , 62, 338-346	5.2	19
65	Cross-metathesis versus palladium-catalyzed C-H activation: Acetoxy ester functionalization of unsaturated fatty acid methyl esters. <i>European Journal of Lipid Science and Technology</i> , <b>2013</b> , 115, 76-85 <sup>3</sup>		19

64	Post-polymerization modification of reactive polymers derived from vinylcyclopropane: a poly(vinylcyclopropane) derivative with physical gelation and UCST behaviour in ethanol/water mixtures. <i>Polymer Chemistry</i> , <b>2014</b> , 5, 5823-5828	4.9	18
63	Acyclic Triene Metathesis Polymerization of Plukenetia Conophora Oil: Branched Polymers by Direct Polymerization of Renewable Resources. <i>Macromolecular Chemistry and Physics</i> , <b>2012</b> , 213, 87-96	2.6	18
62	Dual-Gated Chain Shattering Based on Light Responsive Benzophenones and Thermally Responsive Diels-Alder Linkages. <i>Macromolecules</i> , <b>2017</b> , 50, 5385-5391	5.5	18
61	About the activity and selectivity of less well-known metathesis catalysts during ADMET polymerizations. <i>Beilstein Journal of Organic Chemistry</i> , <b>2010</b> , 6, 1149-58	2.5	18
60	Thermo- and CO <sub>2</sub> -Responsive Linear Polymers and Hydrogels as CO <sub>2</sub> Capturing Materials. <i>Science of Advanced Materials</i> , <b>2015</b> , 7, 948-955	2.3	18
59	Light-Induced Step-Growth Polymerization of AB-Type Photo-Monomers at Ambient Temperature. <i>ACS Macro Letters</i> , <b>2018</b> , 7, 201-207	6.6	16
58	Self-reporting visible light-induced polymer chain collapse. <i>Polymer Chemistry</i> , <b>2019</b> , 10, 4513-4518	4.9	16
57	The para-fluoro-thiol reaction as a powerful tool for precision network synthesis. <i>Polymer Chemistry</i> , <b>2017</b> , 8, 3778-3782	4.9	16
56	Advanced AAO Templating of Nanostructured Stimuli-Responsive Polymers: Hype or Hope?. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1902959	15.6	16
55	Stepwise Light-Induced Dual Compaction of Single-Chain Nanoparticles. <i>Macromolecular Rapid Communications</i> , <b>2017</b> , 38, 1700264	4.8	14
54	4-Vinylbenzenesulfonic acid adduct of epoxidized soybean oil: Synthesis, free radical and ADMET polymerizations. <i>European Polymer Journal</i> , <b>2011</b> , 47, 1467-1476	5.2	14
53	Two-in-One: Orthogonal Photochemistry on a Radical Photoinitiating System. <i>Macromolecular Rapid Communications</i> , <b>2017</b> , 38, 1600598	4.8	13
52	A synthetic approach toward a pH and sugar-responsive diblock copolymer via post-polymerization modification. <i>Polymer Chemistry</i> , <b>2018</b> , 9, 3355-3358	4.9	13
51	Postpolymerization modification of reactive polymers derived from vinylcyclopropane. III. Polymer sequential functionalization using a combination of amines with alkoxyamines, hydrazides, isocyanates, or acyl halides. <i>Journal of Polymer Science Part A</i> , <b>2014</b> , 52, 2841-2849	2.5	13
50	Fabrication of color changeable CO <sub>2</sub> sensitive nanofibers. <i>Polymer Chemistry</i> , <b>2017</b> , 8, 7446-7451	4.9	13
49	Spin fluorescence silencing enables an efficient thermally driven self-reporting polymer release system. <i>Polymer Chemistry</i> , <b>2017</b> , 8, 6199-6203	4.9	12
48	Synergy of Macrocycles and Macromolecular Topologies: An Efficient [3+2]Triazolophane-Based Synthesis of Cage-Shaped Polymers. <i>ACS Macro Letters</i> , <b>2020</b> , 9, 700-705	6.6	11
47	A Bioinspired Hierarchical Underwater Superoleophobic Surface with Reversible pH Response. <i>Advanced Materials Interfaces</i> , <b>2020</b> , 7, 2000101	4.6	10

46	Interrupted CuAAC Ligation: An Efficient Approach to Fluorescence Labeled Three-Armed Mikto Star Polymers. <i>Macromolecules</i> , <b>2018</b> , 51, 2682-2689	5.5	10
45	The unrevealed potential of elemental sulfur for the synthesis of high sulfur content bio-based aliphatic polyesters. <i>Polymer Chemistry</i> , <b>2020</b> , 11, 241-248	4.9	10
44	Post-polymerization modification of polymeric active esters towards TEMPO containing polymers: A systematic study. <i>European Polymer Journal</i> , <b>2020</b> , 130, 109660	5.2	9
43	Reactive nanorods based on activated ester polymers: a versatile template-assisted approach for the fabrication of functional nanorods. <i>Polymer Chemistry</i> , <b>2011</b> , 2, 645-650	4.9	9
42	Prevent or Cure-The Unprecedented Need for Self-Reporting Materials. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 17290-17313	16.4	9
41	UV-triggered CO <sub>2</sub> -responsive behavior of nanofibers and their controlled drug release properties. <i>Journal of Polymer Science Part A</i> , <b>2019</b> , 57, 1580-1586	2.5	8
40	Soft Matter Technology at KIT: Chemical Perspective from Nanoarchitectures to Microstructures. <i>Advanced Materials</i> , <b>2019</b> , 31, e1806334	24	8
39	Dynamic covalent polymer networks via combined nitroxide exchange reaction and nitroxide mediated polymerization. <i>Polymer Chemistry</i> , <b>2020</b> , 11, 2502-2510	4.9	8
38	Precision PEGylated Polymers Obtained by Sequence-Controlled Copolymerization and Postpolymerization Modification. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 9385-9389	3.6	8
37	Post-polymerization modification of Poly(vinylcyclopropanes): A potential route to periodic copolymers. <i>European Polymer Journal</i> , <b>2020</b> , 122, 109319	5.2	8
36	Making the Best of Polymers with Sulfur-Nitrogen Bonds: From Sources to Innovative Materials. <i>Macromolecular Rapid Communications</i> , <b>2020</b> , 41, e2000181	4.8	7
35	A Guanidine-Based Superbase as Efficient Chemiluminescence Booster. <i>Scientific Reports</i> , <b>2019</b> , 9, 14519	4.9	7
34	Synthesis and characterization of polymers from soybean oil and p-dinitrosobenzene. <i>Journal of Applied Polymer Science</i> , <b>2009</b> , 113, 1925-1934	2.9	6
33	Conductive hydrogel composites with autonomous self-healing properties. <i>Soft Matter</i> , <b>2020</b> , 16, 10969-10976	3	6
32	The toolbox of porous anodic aluminum oxideBased nanocomposites: from preparation to application. <i>Colloid and Polymer Science</i> , <b>2021</b> , 299, 325-341	2.4	6
31	Oxygen-switchable thermo-responsive polymers with unprecedented UCST in water. <i>European Polymer Journal</i> , <b>2021</b> , 142, 110156	5.2	5
30	The power of architecture Cage-shaped PEO and its application as a polymer electrolyte. <i>Polymer Chemistry</i> ,	4.9	5
29	Chemiluminescent self-reporting supramolecular transformations on macromolecular scaffolds. <i>Polymer Chemistry</i> , <b>2020</b> , 11, 4213-4220	4.9	4

28	Intercalating Electron Dyes for TEM Visualization of DNA at the Single-Molecule Level. <i>ChemBioChem</i> , <b>2019</b> , 20, 822-830	3.8	4
27	Degradable Redox-Responsive Polyolefins. <i>Macromolecules</i> , <b>2021</b> , 54, 1775-1782	5.5	4
26	Light induced polyethylene ligation. <i>Polymer Chemistry</i> , <b>2018</b> , 9, 3633-3637	4.9	3
25	Fully independent photochemical reactivity in one molecule. <i>Chemical Communications</i> , <b>2019</b> , 55, 9877-9880	5.8	3
24	The Synthesis of End-Functional Ring-Opening Metathesis Polymers <b>2013</b> , 153-171		3
23	Dual-faced borax mediated synthesis of self-healable hydrogels merging dynamic covalent bonding and micellization. <i>Polymer Chemistry</i> , <b>2021</b> , 12, 361-369	4.9	3
22	Untapped toolbox of luminol based polymers. <i>Polymer Chemistry</i> , <b>2021</b> , 12, 1732-1748	4.9	3
21	Structural design of pyrene-functionalized TEMPO-containing polymers for enhanced electrochemical storage performance. <i>Polymer Chemistry</i> , <b>2021</b> , 12, 2643-2650	4.9	3
20	A CO-gated anodic aluminum oxide based nanocomposite membrane for de-emulsification. <i>Nanoscale</i> , <b>2020</b> , 12, 21316-21324	7.7	1
19	Acyclic Diene Metathesis (ADMET) Polymerization of 2,2,6,6-Tetramethylpiperidine-1-sulfanyl (TEMPS) Dimers. <i>Macromolecular Rapid Communications</i> , <b>2021</b> , 42, e2100118	4.8	1
18	Pyrene-Tagged Chloro Oximes as Ambient-Light-Accelerated Ligation Agents. <i>ChemPhotoChem</i> , <b>2019</b> , 3, 66-70	3.3	1
17	Carbonyl Sulfide Derived Polymers <b>2021</b> , 81-145		1
16	Getting the Terms Right: Green, Sustainable, or Circular Chemistry?. <i>Macromolecular Chemistry and Physics</i> , <b>2020</b> , 221, 2200111	2.6	1
15	Thiol-Based Click Polymerizations for Sulfur-Containing Polymers <b>2021</b> , 147-170		0
14	The Vibrant Interplay of Light and Self-Reporting Macromolecular Architectures. <i>Macromolecular Chemistry and Physics</i> , <b>2021</b> , 222, 2100057	2.6	0
13	Synthesis and Post-Polymerization Modification of Poly(N-(4-Vinylphenyl)Sulfonamide)s. <i>Macromolecular Rapid Communications</i> , <b>2021</b> , 42, e2100063	4.8	0
12	Synthesis and Post-Polymerization Modification of Defined Functional Poly(vinyl ether)s. <i>Macromolecular Rapid Communications</i> , <b>2021</b> , 42, e2100133	4.8	0
11	Synthesis and post-polymerization modification of poly(propargyl 2-ylidene-acetate). <i>European Polymer Journal</i> , <b>2021</b> , 156, 110564	5.2	0

10	Passerini Multicomponent Reactions Enabling Self-Reporting Photosensitive Tetrazole Polymers.. <i>ACS Macro Letters</i> , <b>2021</b> , 10, 1159-1166	6.6	o
9	Elemental Sulfur Mediated Novel Multicomponent Redox Polycondensation for the Synthesis of Alternating Copolymers Based on 2,4-Thiophene/Arene Repeating Units. <i>Macromolecular Rapid Communications</i> , <b>2021</b> , 42, e2000695	4.8	o
8	Polymers with Sulfur-Nitrogen Bonds <b>2021</b> , 191-234		
7	Synthesis of Sulfur-Containing Polymers Through Multicomponent Polymerizations <b>2021</b> , 1-37		
6	Synthesis of Polythioesters <b>2021</b> , 171-190		
5	Vorbeugen oder Heilen Die beispiellose Notwendigkeit von selbstberichtenden Materialien. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 17430-17454	3.6	
4	Poly(disulfide)s <b>2021</b> , 367-392		
3	Chemical design and synthesis of macromolecular profluorescent nitroxide systems as self-reporting probes. <i>Polymer Chemistry</i> , <b>2022</b> , 13, 1648-1657	4.9	
2	Poly(pentafluorobenzyl 2-ylidene-acetate): Polymerization and Postpolymerization Modification. <i>Macromolecular Chemistry and Physics</i> , 2100455	2.6	
1	Cage-Shaped Polymers Synthesis: A Comprehensive State-of-the-Art. <i>Macromolecular Rapid Communications</i> , <b>2021</b> , e2100760	4.8	