Hatice Mutlu

List of Publications by Year in Descending Order

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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	Chemical design and synthesis of macromolecular profluorescent nitroxide systems as self-reporting probes. *Polymer Chemistry*, **2022**, 13, 1648-1657	4.9	
116	Thiol-Based Click Polymerizations for Sulfur-Containing Polymers **2021**, 147-170		0
115	Polymers with Sulfur-Nitrogen Bonds **2021**, 191-234		
114	Synthesis of Sulfur-Containing Polymers Through Multicomponent Polymerizations **2021**, 1-37		
113	Synthesis of Polythioesters **2021**, 171-190		
112	Acyclic Diene Metathesis (ADMET) Polymerization of 2,2,6,6-Tetramethylpiperidine-1-sulfanyl (TEMPS) Dimers. *Macromolecular Rapid Communications*, **2021**, 42, e2100118	4.8	1
111	The Vibrant Interplay of Light and Self-Reporting Macromolecular Architectures. *Macromolecular Chemistry and Physics*, **2021**, 222, 2100057	2.6	0
110	Synthesis and Post-Polymerization Modification of Poly(N-(4-Vinylphenyl)Sulfonamide)s. *Macromolecular Rapid Communications*, **2021**, 42, e2100063	4.8	0
109	Synthesis and Post-Polymerization Modification of Defined Functional Poly(vinyl ether)s. *Macromolecular Rapid Communications*, **2021**, 42, e2100133	4.8	0
108	Oxygen-switchable thermo-responsive polymers with unprecedented UCST in water. *European Polymer Journal*, **2021**, 142, 110156	5.2	5
107	Dual-faced borax mediated synthesis of self-healable hydrogels merging dynamic covalent bonding and micellization. *Polymer Chemistry*, **2021**, 12, 361-369	4.9	3
106	Prevent or Cure-The Unprecedented Need for Self-Reporting Materials. *Angewandte Chemie - International Edition*, **2021**, 60, 17290-17313	16.4	9
105	Vorbeugen oder Heilen die beispiellose Notwendigkeit von selbstberichtenden Materialien. *Angewandte Chemie*, **2021**, 133, 17430-17454	3.6	
104	The toolbox of porous anodic aluminum oxide based nanocomposites: from preparation to application. *Colloid and Polymer Science*, **2021**, 299, 325-341	2.4	6
103	Untapped toolbox of luminol based polymers. *Polymer Chemistry*, **2021**, 12, 1732-1748	4.9	3
102	Structural design of pyrene-functionalized TEMPO-containing polymers for enhanced electrochemical storage performance. *Polymer Chemistry*, **2021**, 12, 2643-2650	4.9	3
101	Degradable Redox-Responsive Polyolefins. *Macromolecules*, **2021**, 54, 1775-1782	5.5	4

100	Poly(disulfide)s **2021**, 367-392		
99	Carbonyl Sulfide Derived Polymers **2021**, 81-145		1
98	Synthesis and post-polymerization modification of poly(propargyl 2-ylidene-acetate). *European Polymer Journal*, **2021**, 156, 110564	5.2	0
97	Passerini Multicomponent Reactions Enabling Self-Reporting Photosensitive Tetrazole Polymers.. *ACS Macro Letters*, **2021**, 10, 1159-1166	6.6	0
96	Elemental Sulfur Mediated Novel Multicomponent Redox Polycondensation for the Synthesis of Alternating Copolymers Based on 2,4-Thiophene/Arene Repeating Units. *Macromolecular Rapid Communications*, **2021**, 42, e2000695	4.8	0
95	Cage-Shaped Polymers Synthesis: A Comprehensive State-of-the-Art. *Macromolecular Rapid Communications*, **2021**, e2100760	4.8	
94	Chemiluminescent self-reporting supramolecular transformations on macromolecular scaffolds. *Polymer Chemistry*, **2020**, 11, 4213-4220	4.9	4
93	Making the Best of Polymers with Sulfur-Nitrogen Bonds: From Sources to Innovative Materials. *Macromolecular Rapid Communications*, **2020**, 41, e2000181	4.8	7
92	A Bioinspired Hierarchical Underwater Superoleophobic Surface with Reversible pH Response. *Advanced Materials Interfaces*, **2020**, 7, 2000101	4.6	10
91	Dynamic covalent polymer networks via combined nitroxide exchange reaction and nitroxide mediated polymerization. *Polymer Chemistry*, **2020**, 11, 2502-2510	4.9	8
90	Synergy of Macrocycles and Macromolecular Topologies: An Efficient [34]Triazolophane-Based Synthesis of Cage-Shaped Polymers. *ACS Macro Letters*, **2020**, 9, 700-705	6.6	11
89	Post-polymerization modification of polymeric active esters towards TEMPO containing polymers: A systematic study. *European Polymer Journal*, **2020**, 130, 109660	5.2	9
88	The unrevealed potential of elemental sulfur for the synthesis of high sulfur content bio-based aliphatic polyesters. *Polymer Chemistry*, **2020**, 11, 241-248	4.9	10
87	A CO-gated anodic aluminum oxide based nanocomposite membrane for de-emulsification. *Nanoscale*, **2020**, 12, 21316-21324	7.7	1
86	Conductive hydrogel composites with autonomous self-healing properties. *Soft Matter*, **2020**, 16, 10969-10976	3.0	66
85	Post-polymerization modification of Poly(vinylcyclopropanes): A potential route to periodic copolymers. *European Polymer Journal*, **2020**, 122, 109319	5.2	8
84	Advanced AAO Templating of Nanostructured Stimuli-Responsive Polymers: Hype or Hope?. *Advanced Functional Materials*, **2020**, 30, 1902959	15.6	16
83	Trends in polymeric shape memory hydrogels and hydrogel actuators. *Polymer Chemistry*, **2019**, 10, 1036-1055	4.9	102

82	UV-triggered CO2-responsive behavior of nanofibers and their controlled drug release properties. *Journal of Polymer Science Part A*, **2019**, 57, 1580-1586	2.5	8
81	Sulfur Chemistry in Polymer and Materials Science. *Macromolecular Rapid Communications*, **2019**, 40, e1800650	4.8	113
80	Soft Matter Technology at KIT: Chemical Perspective from Nanoarchitectures to Microstructures. *Advanced Materials*, **2019**, 31, e1806334	24	8
79	Self-reporting visible light-induced polymer chain collapse. *Polymer Chemistry*, **2019**, 10, 4513-4518	4.9	16
78	Fully independent photochemical reactivity in one molecule. *Chemical Communications*, **2019**, 55, 9877-9880	6.1	3
77	A Guanidine-Based Superbase as Efficient Chemiluminescence Booster. *Scientific Reports*, **2019**, 9, 14519	4.9	7
76	Contemporary Photoligation Chemistry: The Visible Light Challenge. *Chemistry - A European Journal* , **2019**, 25, 3700-3709	4.8	23
75	Pyrene-Tagged Chloro Oximes as Ambient-Light-Accelerated Ligation Agents. *ChemPhotoChem*, **2019**, 3, 66-70	3.3	1
74	Intercalating Electron Dyes for TEM Visualization of DNA at the Single-Molecule Level. *ChemBioChem*, **2019**, 20, 822-830	3.8	4
73	Light-Induced Step-Growth Polymerization of AB-Type Photo-Monomers at Ambient Temperature. *ACS Macro Letters*, **2018**, 7, 201-207	6.6	16
72	Untapped potential for debonding on demand: the wonderful world of azo-compounds. *Materials Horizons*, **2018**, 5, 162-183	14.4	38
71	Self-reporting and refoldable profluorescent single-chain nanoparticles. *Chemical Science*, **2018**, 9, 4696-4702	9.4	22
70	Facile Fabrication of CO2-Responsive Nanofibers from Photo-Cross-Linked Poly(pentafluorophenyl acrylate) Nanofibers. *ACS Macro Letters*, **2018**, 7, 431-436	6.6	21
69	Interrupted CuAAC Ligation: An Efficient Approach to Fluorescence Labeled Three-Armed Mikto Star Polymers. *Macromolecules*, **2018**, 51, 2682-2689	5.5	10
68	A synthetic approach toward a pH and sugar-responsive diblock copolymer via post-polymerization modification. *Polymer Chemistry*, **2018**, 9, 3355-3358	4.9	13
67	Light induced polyethylene ligation. *Polymer Chemistry*, **2018**, 9, 3633-3637	4.9	3
66	"Breathing" CO -, O -, and Light-Responsive Vesicles from a Triblock Copolymer for Rate-Tunable Controlled Release. *Macromolecular Rapid Communications*, **2018**, 39, 1700313	4.8	24
65	A Subtractive Photoresist Platform for Micro- and Macroscopic 3D Printed Structures. *Advanced Functional Materials*, **2018**, 28, 1801405	15.6	24

64	CO2-Triggered UCST transition of amphiphilic triblock copolymers and their self-assemblies. *Polymer Chemistry*, **2017**, 8, 2619-2629	4.9	27
63	A sulfur–eugenol allyl ether copolymer: a material synthesized via inverse vulcanization from renewable resources and its application in Li–S batteries. *Materials Chemistry Frontiers*, **2017**, 1, 1818-1822	7.8	46
62	Dual-Gated Supramolecular Star Polymers in Aqueous Solution. *Macromolecules*, **2017**, 50, 2375-2386	5.5	25
61	Two-in-One: Orthogonal Photochemistry on a Radical Photoinitiating System. *Macromolecular Rapid Communications*, **2017**, 38, 1600598	4.8	13
60	CO2-Responsive graft copolymers: synthesis and characterization. *Polymer Chemistry*, **2017**, 8, 1206-1216	4.9	25
59	Degradable fluorescent single-chain nanoparticles based on metathesis polymers. *Chemical Communications*, **2017**, 53, 775-778	5.8	35
58	Spin fluorescence silencing enables an efficient thermally driven self-reporting polymer release system. *Polymer Chemistry*, **2017**, 8, 6199-6203	4.9	12
57	Stepwise Light-Induced Dual Compaction of Single-Chain Nanoparticles. *Macromolecular Rapid Communications*, **2017**, 38, 1700264	4.8	14
56	Fabrication of color changeable CO2 sensitive nanofibers. *Polymer Chemistry*, **2017**, 8, 7446-7451	4.9	13
55	Dual-Gated Chain Shattering Based on Light Responsive Benzophenones and Thermally Responsive Diels–Alder Linkages. *Macromolecules*, **2017**, 50, 5385-5391	5.5	18
54	CO2-Responsive polymer materials. *Polymer Chemistry*, **2017**, 8, 12-23	4.9	120
53	Sulfur-Based Polymer Composites from Vegetable Oils and Elemental Sulfur: A Sustainable Active Material for Li–S Batteries. *Macromolecular Chemistry and Physics*, **2017**, 218, 1600303	2.6	78
52	The para-fluoro-thiol reaction as a powerful tool for precision network synthesis. *Polymer Chemistry* , **2017**, 8, 3778-3782	4.9	16
51	Activated Ester Containing Polymers: Opportunities and Challenges for the Design of Functional Macromolecules. *Chemical Reviews*, **2016**, 116, 1434-95	68.1	257
50	Fabrication of Chemically Tunable, Hierarchically Branched Polymeric Nanostructures by Multi-branched Anodic Aluminum Oxide Templates. *Langmuir*, **2016**, 32, 6437-44	4	22
49	Green chain-shattering polymers based on a self-immolative azobenzene motif. *Polymer Chemistry*, **2016**, 7, 2272-2279	4.9	30
48	Photo- and Metallo-responsive N-Alkyl–Bisimines as Orthogonally Addressable Main-Chain Functional Groups in Metathesis Polymers. *Journal of the American Chemical Society*, **2016**, 138, 1142-5	16.4	30
47	Dynamic covalent single chain nanoparticles based on hetero Diels-Alder chemistry. *Chemical Communications*, **2016**, 53, 157-160	5.8	24

46	Rapid Mercury(II) Removal by Electrospun Sulfur Copolymers. *Polymers*, **2016**, 8,	4.5	58
45	Polybutadiene Functionalization via an Efficient Avenue. *ACS Macro Letters*, **2016**, 5, 1146-1151	6.6	22
44	On the synthesis of sequence-controlled poly(vinyl benzyl amine-co-N-substituted maleimides) copolymers. *European Polymer Journal*, **2015**, 62, 338-346	5.2	19
43	Inverse vulcanization of elemental sulfur with 1,4-diphenylbutadiyne for cathode materials in Li–S batteries. *RSC Advances*, **2015**, 5, 24718-24722	3.7	114
42	Toward Self-Healing Hydrogels Using One-Pot Thiol–Ene Click and Borax-Diol Chemistry. *ACS Macro Letters*, **2015**, 4, 673-678	6.6	104
41	Multifaceted Synthetic Route to Functional Polyacrylates by Transesterification of Poly(pentafluorophenyl acrylates). *Macromolecules*, **2015**, 48, 8695-8707	5.5	49
40	Thermo- and CO2-Responsive Linear Polymers and Hydrogels as CO2 Capturing Materials. *Science of Advanced Materials*, **2015**, 7, 948-955	2.3	18
39	Sequential post-polymerization modification reactions of poly(pentafluorophenyl 4-vinylbenzenesulfonate). *Polymer Chemistry*, **2014**, 5, 2320	4.9	29
38	Reading polymers: sequencing of natural and synthetic macromolecules. *Angewandte Chemie - International Edition*, **2014**, 53, 13010-9	16.4	115
37	Postpolymerization modification of reactive polymers derived from vinylcyclopropane. III. Polymer sequential functionalization using a combination of amines with alkoxyamines, hydrazides, isocyanates, or acyl halides. *Journal of Polymer Science Part A*, **2014**, 52, 2841-2849	2.5	13
36	Precision PEGylated polymers obtained by sequence-controlled copolymerization and postpolymerization modification. *Angewandte Chemie - International Edition*, **2014**, 53, 9231-5	16.4	34
35	Post-polymerization modification of reactive polymers derived from vinylcyclopropane: a poly(vinylcyclopropane) derivative with physical gelation and UCST behaviour in ethanol–water mixtures. *Polymer Chemistry*, **2014**, 5, 5823-5828	4.9	18
34	Lesen von Polymeren: Die Sequenzierung natürlicher und synthetischer Makromoleküle. *Angewandte Chemie*, **2014**, 126, 13224-13233	3.6	21
33	Precision PEGylated Polymers Obtained by Sequence-Controlled Copolymerization and Postpolymerization Modification. *Angewandte Chemie*, **2014**, 126, 9385-9389	3.6	8
32	Multi-stimuli responsive polymers—the all-in-one talents. *Polymer Chemistry*, **2014**, 5, 25-36	4.9	388
31	Self-metathesis of fatty acid methyl esters: full conversion by choosing the appropriate plant oil. *RSC Advances*, **2013**, 3, 4927	3.7	58
30	Post-polymerization modification of reactive polymers derived from vinylcyclopropane: 1. synthesis and thermo-responsive behaviour. *Polymer Chemistry*, **2013**, 4, 2724	4.9	25
29	Copolymers featuring pentafluorophenyl ester and photolabile amine units: synthesis and application as reactive photopatterns. *Polymer Chemistry*, **2013**, 4, 891	4.9	25

28	The Synthesis of End-Functional Ring-Opening Metathesis Polymers **2013**, 153-171		3
27	Cross-metathesis versus palladium-catalyzed C?H activation: Acetoxy ester functionalization of unsaturated fatty acid methyl esters. *European Journal of Lipid Science and Technology*, **2013**, 115, 76-85	3	19
26	Standing on the shoulders of Hermann Staudinger: Post-polymerization modification from past to present. *Journal of Polymer Science Part A*, **2013**, 51, 1-28	2.5	284
25	The use of elemental sulfur as an alternative feedstock for polymeric materials. *Nature Chemistry*, **2013**, 5, 518-24	17.6	748
24	Three-Component Reactions for Post-Polymerization Modifications.. *ACS Macro Letters*, **2013**, 2, 419-422	6.6	76
23	Sustainable routes to polyurethane precursors. *Green Chemistry*, **2013**, 15, 1431	10	260
22	CO2 -Responsive polymers. *Macromolecular Rapid Communications*, **2013**, 34, 1118-33	4.8	199
21	Temperature- and light-responsive smart polymer materials. *Chemical Society Reviews*, **2013**, 42, 7468-83	38.5	732
20	Acyclic Triene Metathesis Polymerization of Plukenetia Conophora Oil: Branched Polymers by Direct Polymerization of Renewable Resources. *Macromolecular Chemistry and Physics*, **2012**, 213, 87-96	2.6	18
19	Controlled positioning of activated ester moieties on well-defined linear polymer chains. *Macromolecular Rapid Communications*, **2012**, 33, 54-60	4.8	48
18	On the Polymerization Behavior of Telomers: Metathesis versus Thiol-Ene Chemistry. *Macromolecules*, **2012**, 45, 1866-1878	5.5	29
17	TBD catalysis with dimethyl carbonate: a fruitful and sustainable alliance. *Green Chemistry*, **2012**, 14, 1728	10	82
16	o-Nitrobenzyl Alcohol Derivatives: Opportunities in Polymer and Materials Science. *Macromolecules* , **2012**, 45, 1723-1736	5.5	411
15	Controlled folding of polystyrene single chains: design of asymmetric covalent bridges. *Polymer Chemistry*, **2012**, 3, 1796-1802	4.9	60
14	Reactive nanorods based on activated ester polymers: a versatile template-assisted approach for the fabrication of functional nanorods. *Polymer Chemistry*, **2011**, 2, 645-650	4.9	9
13	Acyclic diene metathesis: a versatile tool for the construction of defined polymer architectures. *Chemical Society Reviews*, **2011**, 40, 1404-45	58.5	233
12	4-Vinylbenzenesulfonic acid adduct of epoxidized soybean oil: Synthesis, free radical and ADMET polymerizations. *European Polymer Journal*, **2011**, 47, 1467-1476	5.2	14
11	About the activity and selectivity of less well-known metathesis catalysts during ADMET polymerizations. *Beilstein Journal of Organic Chemistry*, **2010**, 6, 1149-58	2.5	18

10	Tailoring Properties of Carbon Nanotube Dispersions and Nanocomposites Using Temperature-Responsive Copolymers of Pyrene-Modified Poly(N-cyclopropylacrylamide). *Macromolecules*, **2010**, 43, 9447-9453	5.5	21
9	Castor oil as a renewable resource for the chemical industry. *European Journal of Lipid Science and Technology*, **2010**, 112, 10-30	3	482
8	Ring-opening metathesis polymerization of fatty acid derived monomers. *Journal of Polymer Science Part A*, **2010**, 48, 5899-5906	2.5	28
7	Unsaturated PA X,20 from Renewable Resources via Metathesis and Catalytic Amidation. *Macromolecular Chemistry and Physics*, **2009**, 210, 1019-1025	2.6	93
6	Synthesis and characterization of polymers from soybean oil and p-dinitrosobenzene. *Journal of Applied Polymer Science*, **2009**, 113, 1925-1934	2.9	6
5	Synthesis of well-defined polymeric activated esters. *Journal of Polymer Science Part A*, **2008**, 46, 6677-6687	2.5	258
4	Synthesis of pentafluorophenyl(meth)acrylate polymers: New precursor polymers for the synthesis of multifunctional materials. *European Polymer Journal*, **2005**, 41, 1569-1575	5.2	324
3	The power of architecture □tage-shaped PEO and its application as a polymer electrolyte. *Polymer Chemistry*,	4.9	5
2	Poly(pentafluorobenzyl 2-ylidene-acetate): Polymerization and Postpolymerization Modification. *Macromolecular Chemistry and Physics*,2100455	2.6	
1	Getting the Terms Right: Green, Sustainable, or Circular Chemistry?. *Macromolecular Chemistry and Physics*,2200111	2.6	1