Anzar Khan

List of Publications by Year in descending order

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78 papers	3,539 citations	117571 34 h-index	143943 57 g-index
84 all docs	84 docs citations	84 times ranked	3905 citing authors

#	Article	IF	Citations
1	Enzyme Sensitive Synthetic Polymer Micelles Based on the Azobenzene Motif. Journal of the American Chemical Society, 2013, 135, 14056-14059.	6.6	184
2	Efficient synthesis of multifunctional polymers via thiolâ€“epoxy â€œclickâ€•chemistry. Chemical Communications, 2012, 48, 3130.	2.2	181
3	Prototype of a Photoswitchable Foldamer. Angewandte Chemie - International Edition, 2006, 45, 1878-1881.	7.2	173
4	Thiolâ€“epoxy â€˜clickâ€™ polymerization: efficient construction of reactive and functional polymers. Polymer Chemistry, 2012, 3, 3224.	1.9	128
5	Post-polymerization modification reactions of poly(glycidyl methacrylate)s. RSC Advances, 2017, 7, 55874-55884.	1.7	118
6	Intramolecular Cross-Linking of Helical Folds: An Approach to Organic Nanotubes. Angewandte Chemie - International Edition, 2003, 42, 6021-6024.	7.2	115
7	Thiolâ€epoxy â€œclickâ€•chemistry: Application in preparation and postpolymerization modification of polymers. Journal of Polymer Science Part A, 2016, 54, 3057-3070.	2.5	112
8	Enzyme-Triggered Cascade Reactions and Assembly of Abiotic Block Copolymers into Micellar Nanostructures. Journal of the American Chemical Society, 2014, 136, 5872-5875.	6.6	96
9	Discrete Organic Nanotubes Based on a Combination of Covalent and Non-Covalent Approaches. Topics in Current Chemistry, 0, , 89-150.	4.0	95
10	Towards Photocontrol over the Helixâ€“Coil Transition in Foldamers: Synthesis and Photoresponsive Behavior of Azobenzene-Core Amphiphilic Oligo(meta-phenylene ethynylene)s. Chemistry - A European Journal, 2006, 12, 4764-4774.	1.7	95
11	Facile access to internally functionalized dendrimers through efficient and orthogonal click reactions. Chemical Communications, 2010, 46, 1556.	2.2	94
12	Accelerated Growth of Dendrimers via Thiolâ^'Ene and Esterification Reactions. Macromolecules, 2010, 43, 6004-6013.	2.2	90
13	Multifunctional Trackable Dendritic Scaffolds and Delivery Agents. Angewandte Chemie - International Edition, 2011, 50, 3425-3429.	7.2	85
14	Morphology Evolution of PS-b-P2VP Diblock Copolymers via Supramolecular Assembly of Hydroxylated Gold Nanoparticles. Macromolecules, 2012, 45, 1553-1561.	2.2	85
15	Facile and General Preparation of Multifunctional Main-Chain Cationic Polymers through Application of Robust, Efficient, and Orthogonal Click Chemistries. Journal of the American Chemical Society, 2012, 134, 17291-17297.	6.6	82
16	Designing functionalizable hydrogels through thiolâ€“epoxy coupling chemistry. Chemical Communications, 2013, 49, 11191.	2.2	79
17	Homopolymer bifunctionalization through sequential thiolâ€“epoxy and esterification reactions: an optimization, quantification, and structural elucidation study. Polymer Chemistry, 2015, 6, 1393-1404.	1.9	78
18	Dual-Reactive Hyperbranched Polymer Synthesis through Proton Transfer Polymerization of Thiol and Epoxide Groups. Macromolecules, 2014, 47, 5070-5080.	2.2	76

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19	Practical synthesis of an amphiphilic, non-ionic poly(para-phenyleneethynylene) derivative with a remarkable quantum yield in water. Chemical Communications, 2005, , 584-586.	2.2	74
20	Synthesis and Characterization of Isomeric Vinyl-1,2,3-triazole Materials by Azideâˆ'Alkyne Click Chemistry. Macromolecules, 2009, 42, 6068-6074.	2.2	74
21	Phase separation of supramolecular and dynamic block copolymers. Polymer Chemistry, 2012, 3, 3033.	1.9	73
22	Thiolâ€epoxy polymerization via an AB monomer: Synthetic access to high molecular weight poly(Î²â€hydroxythioâ€ether)s. Journal of Polymer Science Part A, 2014, 52, 2040-2046.	2.5	65
23	A general synthetic strategy to prepare poly(ethylene glycol)-based multifunctional copolymers. Polymer Chemistry, 2012, 3, 2342.	1.9	61
24	Functionalized Molecular Bottlebrushes. Macromolecules, 2014, 47, 35-40.	2.2	60
25	One- and Two-Photon Induced Polymerization of Methylmethacrylate Using Colloidal CdS Semiconductor Quantum Dots. Journal of the American Chemical Society, 2008, 130, 8280-8288.	6.6	56
26	Protecting-group-free synthesis of chain-end multifunctional polymers by combining ATRP with thiolâ€“epoxy â€˜clickâ€™ chemistry. Polymer Chemistry, 2013, 4, 2440.	1.9	56
27	Biologically activatable azobenzene polymers targeted at drug delivery and imaging applications. Biomaterials, 2018, 185, 333-347.	5.7	54
28	Azaâ€Michael addition reaction: Postâ€polymerization modification and preparation of PEI/PEGâ€based polyester hydrogels from enzymatically synthesized reactive polymers. Journal of Polymer Science Part A, 2015, 53, 745-749.	2.5	53
29	Synthesis of thermally stable Au-core/Pt-shell nanoparticles and their segregation behavior in diblock copolymer mixtures. Soft Matter, 2011, 7, 6255.	1.2	47
30	Amphipathic Homopolymers for siRNA Delivery: Probing Impact of Bifunctional Polymer Composition on Transfection. Biomacromolecules, 2014, 15, 1707-1715.	2.6	45
31	N-Vinyltriazoles: A New Functional Monomer Family through Click Chemistry. Macromolecules, 2010, 43, 5474-5477.	2.2	41
32	Molecular Tailoring of Poly(styrene-b-methyl methacrylate) Block Copolymer Toward Perpendicularly Oriented Nanodomains with Sub-10 nm Features. ACS Macro Letters, 2017, 6, 1386-1391.	2.3	37
33	Proton Transfer Hydrogels: Versatility and Applications. Journal of the American Chemical Society, 2018, 140, 6700-6709.	6.6	37
34	Synthesis and characterization of hyperbranched polymers with increased chemical versatility for imprint lithographic resists. Journal of Polymer Science Part A, 2008, 46, 6238-6254.	2.5	34
35	Photoinduced Proton-Transfer Polymerization: A Practical Synthetic Tool for Soft Lithography Applications. Journal of the American Chemical Society, 2020, 142, 3479-3488.	6.6	34
36	Synthesis and self-assembly of dynamic covalent block copolymers: towards a general route to pore-functionalized membranes. Chemical Communications, 2012, 48, 3427.	2.2	32

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37	Supramolecular mimics of phase separating covalent diblock copolymers. Polymer Chemistry, 2012, 3, 2050.	1.9	30
38	Poly(ortho -phenylene ethynylene)s: Synthetic accessibility and optical properties. Journal of Polymer Science Part A, 2006, 44, 1619-1627.	2.5	28
39	Dendronized macromonomers for three-dimensional data storage. Chemical Communications, 2009, , 425-427.	2.2	26
40	Microwave-accelerated synthesis of lengthy and defect-free poly(m-phenyleneethynylene)s via AB? and A2 + BB? polycondensation routesElectronic supplementary information (ESI) available: monomer syntheses, polycondensation procedures, and polymer characterization. See http://www.rsc.org/suppdata/cc/b3/b312762a/. Chemical Communications, 2004, , 300.	2.2	25
41	Enzymatic â€˜chargingâ€™ of synthetic polymers. Polymer Chemistry, 2015, 6, 686-690.	1.9	25
42	Multiply functionalized dendrimers: protective-group-free synthesis through sequential thiol-epoxy â€˜clickâ€™ chemistry and esterification reaction. RSC Advances, 2015, 5, 43961-43964.	1.7	24
43	An activatable anticancer polymerâ€“drug conjugate based on the self-immolative azobenzene motif. Journal of Materials Chemistry B, 2017, 5, 4574-4578.	2.9	24
44	Aggregation-free and high stability coreâ€“shell polymer nanoparticles with high fullerene loading capacity, variable fullerene type, and compatibility towards biological conditions. Chemical Science, 2021, 12, 4949-4957.	3.7	24
45	Disulfides as mercapto-precursors in nucleophilic ring opening reaction of polymeric epoxides: establishing equimolar stoichiometric conditions in a thiolâ€“epoxy â€˜clickâ€™ reaction. Chemical Communications, 2020, 56, 7419-7422.	2.2	22
46	Perpendicularly Oriented Block Copolymer Thin Films Induced by Neutral Star Copolymer Nanoparticles. ACS Macro Letters, 2015, 4, 133-137.	2.3	20
47	Architectural Effects of Organic Nanoparticles on Block Copolymer Orientation. Macromolecules, 2017, 50, 5025-5032.	2.2	20
48	Self-assembly of an interacting binary blend of diblock copolymers in thin films: a potential route to porous materials with reactive nanochannel chemistry. Soft Matter, 2014, 10, 5755.	1.2	19
49	A Modular and Practical Synthesis of Zwitterionic Hydrogels through Sequential Amine-Epoxy â€œClickâ€• Chemistry and N-Alkylation Reaction. Polymers, 2019, 11, 1491.	2.0	19
50	Highâ€Performance, Nondiffusive Crosslinked Polymers for Holographic Data Storage. Advanced Materials, 2008, 20, 3937-3941.	11.1	17
51	Scalable ambient synthesis of waterâ€soluble poly(Î²â€hydroxythioâ€ether)s. Journal of Polymer Science Part A, 2017, 55, 3381-3386.	2.5	17
52	Polyselenonium salts: synthesis through sequential selenium-epoxy â€˜clickâ€™ chemistry and Se-alkylation. Chemical Communications, 2020, 56, 14271-14274.	2.2	17
53	Antibacterial properties of main-chain cationic polymers prepared through amineâ€“epoxy â€˜Clickâ€™ polymerization. RSC Advances, 2020, 10, 26752-26755.	1.7	16
54	Supramolecular star polymers with compositional heterogeneity. Journal of Polymer Science Part A, 2012, 50, 1844-1850.	2.5	13

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55	Avenues into the Synthesis of Illusive Poly(m-phenylene-alt-squaraine)s:â€‰ Polycondensation of m-Phenylenediamines with Squaric Acid Intercepted by Intermediate Semisquaraines of Exceptionally Low Reactivity. Journal of Organic Chemistry, 2004, 69, 184-187.	1.7	12
56	Using reversibility of the dynamic covalent bond to create porosity in highly ordered polymer thin films under mild conditions and nano-pore functionalization in the gas phase. Polymer Chemistry, 2013, 4, 2691.	1.9	12
57	Main-Chain Polysulfonium Salts: Development of Non-Ammonium Antibacterial Polymers Similar in Their Activity to Antibiotic Drugs Vancomycin and Kanamycin. Biomacromolecules, 2021, 22, 3534-3542.	2.6	12
58	Effect of precursor chemical composition on the formation and stability of G-quadruplex core supramolecular star polymers. Polymer Chemistry, 2012, 3, 2615.	1.9	10
59	Thermoresponsive Poly(ÃŸ-hydroxyl amine)s: Synthesis of a New Stimuli Responsive Amphiphilic Homopolymer Family through Amine-Epoxy â€˜Clickâ€™ Polymerization. Polymers, 2019, 11, 1941.	2.0	10
60	Addressing the mid-point of polymer chains for multiple functionalization purposes through sequential thiolâ€“epoxy â€˜clickâ€™ and esterification reactions. RSC Advances, 2017, 7, 19439-19447.	1.7	9
61	Functional organic nanotubes from hollow helical scaffolds. Synthetic Metals, 2004, 147, 37-42.	2.1	8
62	Hypersensitive azobenzenes: facile synthesis of clickable and cleavable azo linkers with tunable and high reducibility. Organic and Biomolecular Chemistry, 2020, 18, 420-424.	1.5	8
63	Poly(ÃŸ-hydroxy thioether)s: synthesis through thiol-epoxy â€˜clickâ€™ reaction and post-polymerization modification to main-chain polysulfonium salts. Journal of Macromolecular Science - Pure and Applied Chemistry, 2022, 59, 2-10.	1.2	8
64	Effect of precursor chainâ€length on the formation and stability of poly(ethylene glycol)â€based supramolecular star polymers. Journal of Polymer Science Part A, 2012, 50, 2415-2420.	2.5	7
65	Balancing antimicrobial performance with hemocompatibility in amphiphilic homopolymers. Journal of Polymer Science Part A, 2018, 56, 2391-2396.	2.5	7
66	Selenium-Epoxy â€˜Clickâ€™ Reaction and Se-Alkylationâ€”Efficient Access to Organo-Selenium and Selenonium Compounds. Chemistry, 2020, 2, 827-836.	0.9	7
67	Push-pull azobenzene chromophores with negative halochromism. Dyes and Pigments, 2021, 188, 109197.	2.0	7
68	Holographic Recording in Cross-Linked Polymeric Matrices through Photoacid Generation. Chemistry of Materials, 2008, 20, 3669-3674.	3.2	6
69	Sequential coating of nanopores with charged polymers: A general approach for controlling pore properties of self-assembled block copolymer membranes. Macromolecular Research, 2017, 25, 1091-1099.	1.0	5
70	Deconstructing poloxamer and poloxamine block copolymers to access poly(ethylene glycol) and poly(propylene oxide)-based thermoresponsive polymers. Journal of Macromolecular Science - Pure and Applied Chemistry, 2020, 57, 472-478.	1.2	5
71	Buckybowl polymers: synthesis of corannulene-containing polymers through post-polymerization modification strategy. Polymer Chemistry, 2021, 12, 5209-5216.	1.9	5
72	Selenonium Polyelectrolyte Synthesis through Post-Polymerization Modifications of Poly (Glycidyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.0	4

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73	Sequential Thiol-Epoxy and Esterification Reactions: A Facile Route to Bifunctional Homopolymer Sequences. Advances in Polymer Science, 2014, , 87-103.	0.4	3
74	Synthesis of thermoresponsive oligo(ethylene glycol) polymers through radical ring-opening polymerization of vinylcyclopropane monomers. RSC Advances, 2020, 10, 2359-2363.	1.7	3
75	Synthesis of azobenzenes with high reactivity towards reductive cleavage: Enhancing the repertoire of hypersensitive azobenzenes and examining their dissociation behavior. Tetrahedron Letters, 2020, 61, 152018.	0.7	2
76	Ethylene glycol-rich thermosensitive poly(ÃŸ-hydroxyl amine)s. Journal of Macromolecular Science - Pure and Applied Chemistry, 2020, 57, 685-690.	1.2	1
77	Micellar Assembly and Disassembly of Organoselenium Block Copolymers through Alkylation and Dealkylation Processes. Polymers, 2021, 13, 2456.	2.0	1
78	Introducing a Reversible Linkage to Block Copolymer Self-Assembly: Towards Controlling Nanopore Chemistry. Chimia, 2012, 66, 444-444.	0.3	0