

# Zhenbin Niu

## List of Publications by Year in descending order

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21  
papers

1,713  
citations

567281

15  
h-index

642732

23  
g-index

24  
all docs

24  
docs citations

24  
times ranked

1732  
citing authors

#	ARTICLE	IF	CITATIONS
1	Polycatenanes. <i>Chemical Reviews</i> , 2009, 109, 6024-6046.	47.7	424
2	Stimuli-Responsive Host-Guest Systems Based on the Recognition of Cryptands by Organic Guests. <i>Accounts of Chemical Research</i> , 2014, 47, 1995-2005.	15.6	301
3	Supramolecular AA~BB-Type Linear Polymers with Relatively High Molecular Weights via the Self-Assembly of Bis( <i>m</i> -phenylene)-32-Crown-10 Cryptands and a Bisparaquat Derivative. <i>Journal of the American Chemical Society</i> , 2011, 133, 2836-2839.	13.7	270
4	Inducing and quantifying forbidden reactivity with single-molecule polymer mechanochemistry. <i>Nature Chemistry</i> , 2015, 7, 323-327.	13.6	182
5	Relative Mechanical Strengths of Weak Bonds in Sonochemical Polymer Mechanochemistry. <i>Journal of the American Chemical Society</i> , 2015, 137, 10826-10832.	13.7	104
6	Self-assembly of daisy chain oligomers from heteroditopic molecules containing secondary ammonium ion and crown ether moieties. <i>Journal of Polymer Science Part A</i> , 2010, 48, 975-985.	2.3	59
7	Pseudocryptand-Type [3]Pseudorotaxane and Hook-Ring-Polypseudo[2]catenane Based on a Bis( <i>m</i> -phenylene)-32-crown-10 Derivative and Bisparaquat Derivatives. <i>Organic Letters</i> , 2011, 13, 4616-4619.	4.6	45
8	Pseudocryptand-Type [2]Pseudorotaxanes Based on Bis( <i>meta</i> -phenylene)-32-Crown-10 Derivatives and Paraquats with Remarkably Improved Association Constants. <i>Organic Letters</i> , 2011, 13, 3992-3995.	4.6	44
9	Accelerating a Mechanically Driven <i>anti</i> -Woodward-Hoffmann Ring Opening with a Polymer Lever Arm Effect. <i>Journal of Organic Chemistry</i> , 2015, 80, 11895-11898.	3.2	43
10	Screening of hyaluronic acid-poly(ethylene glycol) composite hydrogels to support intervertebral disc cell biosynthesis using artificial neural network analysis. <i>Acta Biomaterialia</i> , 2014, 10, 3421-3430.	8.3	40
11	The First [2]Pseudorotaxane and the First Pseudocryptand-Type Poly[2]pseudorotaxane Based on Bis( <i>meta</i> -phenylene)-32-Crown-10 and Paraquat Derivatives. <i>Organic Letters</i> , 2011, 13, 2872-2875.	4.6	39
12	The Mechanical Strength of a Mechanical Bond: Sonochemical Polymer Mechanochemistry of Poly(catenane) Copolymers. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 13086-13089.	13.8	36
13	1,2-Bis[N-( <i>N</i> -alkylimidazolium)]ethane salts as new guests for crown ethers and cryptands. <i>Tetrahedron</i> , 2010, 66, 7077-7082.	1.9	30
14	Rotaxanes from Tetralactams. <i>Macromolecules</i> , 2012, 45, 1270-1280.	4.8	23
15	Molecular Damage Detection in an Elastomer Nanocomposite with a Coumarin Dimer Mechanophore. <i>Macromolecular Rapid Communications</i> , 2021, 42, e2000359.	3.9	21
16	An acid-base adjustable pseudocryptand-type [2]pseudorotaxane based on a bis( <i>meta</i> -phenylene)-32-crown-10 derivative and paraquat. <i>Tetrahedron Letters</i> , 2011, 52, 6379-6382.	1.4	15
17	The Mechanical Strength of a Mechanical Bond: Sonochemical Polymer Mechanochemistry of Poly(catenane) Copolymers. <i>Angewandte Chemie</i> , 2016, 128, 13280-13283.	2.0	11
18	Pseudocryptand-type complexes of heterocyclic derivatives of bis( <i>meta</i> -phenylene)-32-crown-10 with diquat. <i>Tetrahedron Letters</i> , 2016, 57, 60-63.	1.4	10

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19	Contrasting biscryptand/dimethyl paraquat [3]pseudorotaxanes: statistical vs. anticooperative complexation behavior. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 6909.	2.8	9
20	Heterocyclic monomers via reissert chemistry. <i>Journal of Polymer Science Part A</i> , 2011, 49, 3842-3851.	2.3	3
21	Steric effects on complexation of bis( meta -phenylene)â€³2â€³crownâ€³10 derivatives with paraquats. <i>Heteroatom Chemistry</i> , 2017, 28, .	0.7	2