

# Bin Hu

## List of Publications by Year in descending order

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29  
papers

713  
citations

516561

16  
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552653

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g-index

29  
all docs

29  
docs citations

29  
times ranked

1114  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanophore Activation at Heterointerfaces. <i>Journal of the American Chemical Society</i> , 2014, 136, 15925-15928.	6.6	99
2	The existence of optimal molecular weight for poly(acrylic acid) binders in silicon/graphite composite anode for lithium-ion batteries. <i>Journal of Power Sources</i> , 2018, 378, 671-676.	4.0	70
3	Surface-Functionalized Silicon Nanoparticles as Anode Material for Lithium-Ion Battery. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 44924-44931.	4.0	70
4	Re-Engineering Poly(Acrylic Acid) Binder toward Optimized Electrochemical Performance for Silicon Lithium-Ion Batteries: Branching Architecture Leads to Balanced Properties of Polymeric Binders. <i>Advanced Functional Materials</i> , 2020, 30, 1908558.	7.8	60
5	Annulated Dialkoxybenzenes as Catholyte Materials for Non-aqueous Redox Flow Batteries: Achieving High Chemical Stability through Bicyclic Substitution. <i>Advanced Energy Materials</i> , 2017, 7, 1701272.	10.2	57
6	Understanding of pre-lithiation of poly(acrylic acid) binder: Striking the balances between the cycling performance and slurry stability for silicon-graphite composite electrodes in Li-ion batteries. <i>Journal of Power Sources</i> , 2019, 416, 125-131.	4.0	50
7	An efficient and reusable hairy-particle acid catalyst for the synthesis of 5-hydroxymethylfurfural from dehydration of fructose in water. <i>Chemical Communications</i> , 2013, 49, 8668.	2.2	40
8	Tertiary-Amine-Containing Thermo- and pH-Sensitive Hydrophilic ABA Triblock Copolymers: Effect of Different Tertiary Amines on Thermally Induced Sol-Gel Transitions. <i>Langmuir</i> , 2014, 30, 2541-2550.	1.6	39
9	Effect of Polymer Grafting Density on Mechanophore Activation at Heterointerfaces. <i>ACS Macro Letters</i> , 2016, 5, 819-822.	2.3	31
10	Synthesis of Eight-shaped Poly(ethylene oxide) by the Combination of Glaser Coupling with Ring-opening Polymerization. <i>Macromolecular Rapid Communications</i> , 2011, 32, 1658-1663.	2.0	29
11	Enhancing Gelation of Doubly Thermosensitive Hydrophilic ABC Linear Triblock Copolymers in Water by Thermoresponsive Hairy Nanoparticles. <i>Macromolecules</i> , 2016, 49, 5502-5513.	2.2	22
12	Synthesis of amphiphilic tadpole-shaped copolymers by combination of glaser coupling with living anionic polymerization and ring-opening polymerization. <i>Journal of Polymer Science Part A</i> , 2012, 50, 2227-2235.	2.5	18
13	Hybrid Micellar Hydrogels of a Thermosensitive ABA Triblock Copolymer and Hairy Nanoparticles: Effect of Spatial Location of Hairy Nanoparticles on Gel Properties. <i>Langmuir</i> , 2014, 30, 11212-11224.	1.6	18
14	Dual overcharge protection and solid electrolyte interphase-improving action in Li-ion cells containing a bis-annulated dialkoxyarene electrolyte additive. <i>Journal of Power Sources</i> , 2018, 378, 264-267.	4.0	18
15	Synthesis of 4 <sup>1/4</sup> -PS2PtBA2, 4 <sup>1/4</sup> -PI2PtBA2, and 4 <sup>1/4</sup> -PI2PS2 Star-Shaped Copolymers by Combination of Glaser Coupling with Living Anionic Polymerization and ATRP. <i>Macromolecules</i> , 2010, 43, 6939-6942.	2.2	17
16	Tailoring the Surface of Silicon Nanoparticles for Enhanced Chemical and Electrochemical Stability for Li-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2019, 2, 6176-6183.	2.5	17
17	Reversible sol-gel transitions of aqueous dispersions of silica nanoparticles grafted with diblock copolymer brushes composed of a thermosensitive inner block and a charged outer block. <i>Soft Matter</i> , 2015, 11, 6808-6820.	1.2	16
18	An extremely durable redox shuttle additive for overcharge protection of lithium-ion batteries. <i>Materials Today Energy</i> , 2019, 13, 308-311.	2.5	13

#	ARTICLE	IF	CITATIONS
19	Poly(4-vinylbenzoic acid): A Re-Engineered Binder for Improved Performance from Water-Free Slurry Processing for Silicon Graphite Composite Electrodes. ACS Applied Energy Materials, 2019, 2, 6348-6354.	2.5	8
20	Hybrid micellar network hydrogels of thermosensitive ABA triblock copolymer and polymer brush-grafted nanoparticles: Effect of LCST transition of polymer brushes on gel property. Polymer, 2016, 82, 206-216.	1.8	6
21	Improved performance through tight coupling of redox cycles of sulfur and 2,6-polyanthraquinone in lithium-sulfur batteries. Journal of Materials Chemistry A, 2017, 5, 24103-24109.	5.2	6
22	Influence of cleavage of photosensitive group on thermally induced micellization and gelation of a doubly responsive diblock copolymer in aqueous solutions: A SANS study. Polymer, 2016, 105, 25-34.	1.8	5
23	Poly(Acrylic Acid) Binders: Re-Engineering Poly(Acrylic Acid) Binder toward Optimized Electrochemical Performance for Silicon Lithium-Ion Batteries: Branching Architecture Leads to Balanced Properties of Polymeric Binders (Adv. Funct. Mater. 10/2020). Advanced Functional Materials, 2020, 30, 2070065.	7.8	1
24	2,1,3-Benzothiadiazole Derivatives As Anolyte Materials for Non-Aqueous Redox Flow Batteries. ECS Meeting Abstracts, 2018, , .	0.0	1
25	Lithiation Effect of the Poly(Acrylic Acid) Binders on the Silicon Anode of Lithium-Ion Batteries. ECS Meeting Abstracts, 2018, , .	0.0	1
26	Modular Approach for the Synthesis of Bottlebrush Diblock Copolymers from Poly(Glycidyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 467 Tc 488-497.	2.2	1
27	Redox Flow Batteries: Annulated Dialkoxybenzenes as Catholyte Materials for Non-aqueous Redox Flow Batteries: Achieving High Chemical Stability through Bicyclic Substitution (Adv. Energy Mater.) Tj ETQq1 1 0.784214 rgBT /Overlock 10 Tf 50 467 Tc	1.1	1
28	Surface Chemical Modification of Si Nanoparticles for Application in Si-Based Anode. ECS Meeting Abstracts, 2018, , .	0.0	0
29	Surface-Modified Si Nano-Particles as New Anode Materials. ECS Meeting Abstracts, 2019, , .	0.0	0