

# Alternative binders for sustainable electrochemical energy storage: aqueous electrode processing and bio-derived polymers

Energy and Environmental Science

11, 3096-3127

DOI: [10.1039/c8ee00640g](https://doi.org/10.1039/c8ee00640g)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Advanced materials and technologies for hybrid supercapacitors for energy storage – A review. <i>Journal of Energy Storage</i> , 2019, 25, 100852.	3.9	417
2	A Comprehensive Study of Hydrolyzed Polyacrylamide as a Binder for Silicon Anodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 44090-44100.	4.0	32
3	Biomaterials for High-Energy Lithium-Based Batteries: Strategies, Challenges, and Perspectives. <i>Advanced Energy Materials</i> , 2019, 9, 1901774.	10.2	73
4	Unraveling the role of binder concentration on the electrochemical behavior of mesocarbon microbead anode in lithium-ion batteries: understanding the formation of the solid electrolyte interphase. <i>Journal of Solid State Electrochemistry</i> , 2019, 23, 2771-2783.	1.2	15
5	Semianalytical study of the effect of realistic boundary conditions on diffusion induced stresses in cylindrical lithium ion electrode-binder system. <i>International Journal of Mechanical Sciences</i> , 2019, 163, 105141.	3.6	19
6	Polyacrylonitrile-based rubber (HNBR) as a new potential elastomeric binder for lithium-ion battery electrodes. <i>Journal of Power Sources</i> , 2019, 440, 227111.	4.0	20
7	Water-Processable P2-Na <sub>0.67</sub> Ni <sub>0.22</sub> Cu <sub>0.11</sub> Mn <sub>0.56</sub> Ti <sub>0.11</sub> O <sub>2</sub> Cathode Material for Sodium Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2019, 166, A251-A257.	10.2	151
8	Industrial Requirements of Materials for Electrical Double Layer Capacitors: Impact on Current and Future Applications. <i>Advanced Energy Materials</i> , 2019, 9, 1900334.	10.2	151
9	Thermomechanical Polymer Binder Reactivity with Positive Active Materials for Li Metal Polymer and Li-Ion Batteries: An XPS and XPS Imaging Study. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 18368-18376.	4.0	40
10	CMC-citric acid Cu(II) cross-linked binder approach to improve the electrochemical performance of Si-based electrodes. <i>Electrochimica Acta</i> , 2019, 304, 495-504.	2.6	24
11	Confronting the Challenges of Next-Generation Silicon Anode-Based Lithium-Ion Batteries: Role of Designer Electrolyte Additives and Polymeric Binders. <i>ChemSusChem</i> , 2019, 12, 2515-2539.	3.6	170
12	Application of a Commercially-Available Fluorine-Free Thermoplastic Elastomer as a Binder for High-Power Li-Ion Battery Electrodes. <i>Journal of the Electrochemical Society</i> , 2019, 166, A1140-A1146.	1.3	5
13	Peering into Alloy Anodes for Sodium-Ion Batteries: Current Trends, Challenges, and Opportunities. <i>Advanced Functional Materials</i> , 2019, 29, 1808745.	7.8	209
14	Compressible, durable and conductive polydimethylsiloxane-coated MXene foams for high-performance electromagnetic interference shielding. <i>Chemical Engineering Journal</i> , 2020, 381, 122622.	6.6	289
15	Chemical stability and long-term cell performance of low-cobalt, Ni-Rich cathodes prepared by aqueous processing for high-energy Li-Ion batteries. <i>Energy Storage Materials</i> , 2020, 24, 188-197.	9.5	155
16	Jeffamine-Based Polymers for Rechargeable Batteries. <i>Batteries and Supercaps</i> , 2020, 3, 30-46.	2.4	27
17	Deriving Structure-Performance Relations of Chemically Modified Chitosan Binders for Sustainable High-Voltage LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> Cathodes. <i>Batteries and Supercaps</i> , 2020, 3, 155-164.	2.4	18
18	Water-processable, sprayable LiFePO <sub>4</sub> /graphene hybrid cathodes for high-power lithium ion batteries. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 84, 72-81.	2.9	22

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20	Natural Polymers as Green Binders for High-Loading Supercapacitor Electrodes. <i>ChemSusChem</i> , 2020, 13, 763-770.	3.6	37
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22	Unveiling and Amplifying the Benefits of Carbon-Coated Aluminum Current Collectors for Sustainable LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> Cathodes. <i>ACS Applied Energy Materials</i> , 2020, 3, 218-230.	2.5	25
23	Electrophoretically co-deposited Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> /reduced graphene oxide nanolayered composites for high-performance battery application. <i>Energy Storage Materials</i> , 2020, 26, 560-569.	9.5	33
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57	Synthesis of Fluorine-Containing Polymers by Functionalization of <i>cis</i> -1,4-Polyisoprene with Hypervalent Iodine Compounds. <i>Macromolecules</i> , 2020, 53, 8020-8031.	2.2	15
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