

# CITATION REPORT

List of articles citing

The use of elemental sulfur as an alternative feedstock for polymeric materials

DOI: 10.1038/nchem.1624

Nature Chemistry, 2013, 5, 518-24.

**Source:** <https://exaly.com/paper-pdf/55825748/citation-report.pdf>

**Version:** 2024-04-19

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
910	Covalently Grafted Polysulfur Graphene Nanocomposites for Ultrahigh Sulfur-Loading Lithium Polysulfur Batteries.		
909	Inverse Vulcanization Polymers with Enhanced Thermal Properties via Divinylbenzene Homopolymerization-Assisted Cross-Linking.		
908	Polymeric Sulfur as a Li Ion Conductor.		
907	Controlled Synthesis of Sulfur-Rich Polymeric Selenium Sulfides as Promising Electrode Materials for Long-Life, High-Rate Lithium Metal Batteries.		
906	Highly Efficient Porous Fe <sub>x</sub> Ce <sub>1-x</sub> O <sub>2</sub> with Three-Dimensional Hierarchical Nanoflower Morphology for H <sub>2</sub> S Selective Oxidation.		
905	Rational Sulfur Cathode Design for Lithium Sulfur Batteries: Sulfur-Embedded Benzoxazine Polymers.		
904	Fluorinated Covalent Organic Polymers for High Performance Sulfur Cathodes in Lithium Sulfur Batteries.		
903	Chemie. <b>2013</b> , 61, 742-744		
902	Phase-controlled synthesis of Cu <sub>2</sub> ZnSnS <sub>4</sub> nanocrystals: the role of reactivity between Zn and S. <b>2013</b> , 135, 18377-84		88
901	Electrochemically Active Polymers for Electrochemical Energy Storage: Opportunities and Challenges. <b>2013</b> , 2, 839-844		74
900	Sulphur in the melt. <b>2013</b> , 12, 472-472		
899	A new trick to harness the sulfur surplus. <b>2013</b> , 5, e64-e64		2
898	Preparation of Dynamic Covalent Polymers via Inverse Vulcanization of Elemental Sulfur. <b>2014</b> , 3, 1258-1261		94
897	Sulfur copolymers for infrared optical imaging. <b>2014</b> ,		3
896	Optical properties of sulfur copolymers for infrared applications. <b>2014</b> ,		3
895	A few of our favourite things. <i>Nature Chemistry</i> , <b>2014</b> , 6, 264-266	17.6	
894	A review of electrolytes for lithium-sulfur batteries. <b>2014</b> , 255, 204-218		338

893	Inverse Vulcanization of Elemental Sulfur to Prepare Polymeric Electrode Materials for Li-S Batteries.. <b>2014</b> , 3, 229-232	217
892	New infrared transmitting material via inverse vulcanization of elemental sulfur to prepare high refractive index polymers. <b>2014</b> , 26, 3014-8	215
891	A dual coaxial nanocable sulfur composite for high-rate lithium-sulfur batteries. <b>2014</b> , 6, 1653-60	79
890	Microwave synthesis of microstructured and nanostructured metal chalcogenides from elemental precursors in phosphonium ionic liquids. <b>2014</b> , 136, 15465-8	37
889	High performance lithium-sulfur batteries: advances and challenges. <b>2014</b> , 2, 12662-12676	235
888	Sulfur-rich polymeric materials with semi-interpenetrating network structure as a novel lithium-sulfur cathode. <b>2014</b> , 2, 9280	120
887	One-pot synthesis of PbS NP/sulfur-oleylamine copolymer nanocomposites via the copolymerization of elemental sulfur with oleylamine. <b>2014</b> , 5, 3617	64
886	Sulfur copolymer nanowires with enhanced visible-light photoresponse. <b>2014</b> , 50, 11208-10	30
885	Liquid and Solid Compound Granulated Diurea Sulfate-Based Fertilizers for Sustainable Sulfur Source. <b>2014</b> , 2, 2477-2487	15
884	Hierarchically porous carbon encapsulating sulfur as a superior cathode material for high performance lithium-sulfur batteries. <b>2014</b> , 6, 194-9	140
883	Novel hierarchically porous carbon materials obtained from natural biopolymer as host matrixes for lithium-sulfur battery applications. <b>2014</b> , 6, 13174-82	118
882	Key parameters in design of lithium sulfur batteries. <b>2014</b> , 269, 111-116	82
881	Transformation of sulfur to organic/inorganic hybrids employed by networks and their application for the modulation of refractive indices. <b>2014</b> , 52, 2588-2595	29
880	On the Electrode Potentials in Lithium-Sulfur Batteries and Their Solvent-Dependence. <b>2014</b> , 161, A1399-A1406	66
879	Makromolekulare Chemie 2013. <b>2014</b> , 62, 330-342	
878	Structural origins of enhanced capacity retention in novel copolymerized sulfur-based composite cathodes for high-energy density Li-S batteries. <b>2015</b> , 5, 353-364	20
877	Design Considerations for Unconventional Electrochemical Energy Storage Architectures. <b>2015</b> , 5, 1402115	224
876	The Application of Redox Targeting Principles to the Design of Rechargeable LiS Flow Batteries. <b>2015</b> , 5, 1501808	75

875	Conjugated microporous polymers with dimensionality-controlled heterostructures for green energy devices. <b>2015</b> , 27, 3789-96	176
874	Confined Sulfur in Microporous Carbon Renders Superior Cycling Stability in Li/S Batteries. <b>2015</b> , 25, 4312-4320	232
873	Neue Ansätze zur direkten Verwendung elementaren Schwefels in der Synthese und Verarbeitung moderner Werkstoffe. <b>2015</b> , 127, 3298-3308	27
872	Stabilization of Insoluble Discharge Products by Facile Aniline Modification for High Performance Li-S Batteries. <b>2015</b> , 5, 1500268	43
871	Multiscale Structural Architectures of Novel Sulfur Copolymer Composite Cathodes for High-Energy Density Li-S Batteries Studied by Analytical Multimode STEM Imaging and Tomography. <b>2015</b> , 21, 143-144	1
870	Nanospace-confinement copolymerization strategy for encapsulating polymeric sulfur into porous carbon for lithium-sulfur batteries. <b>2015</b> , 7, 11165-71	46
869	Nanoparticle-sulphur "inverse vulcanisation" polymer composites. <b>2015</b> , 51, 10467-70	32
868	Heterocycles from methylenecyclopropanes. <b>2015</b> , 13, 8379-92	83
867	Kilogram scale inverse vulcanization of elemental sulfur to prepare high capacity polymer electrodes for Li-S batteries. <b>2015</b> , 53, 173-177	100
866	Naphthyridine Derivatives as a Model System for Potential Lithium Sulfur Energy-Storage Applications. <b>2015</b> , 2015, 933-937	8
865	Molecular-confinement of polysulfides within mesoscale electrodes for the practical application of lithium sulfur batteries. <b>2015</b> , 13, 267-274	43
864	Improving the Charge Conductance of Elemental Sulfur via Tandem Inverse Vulcanization and Electropolymerization. <b>2015</b> , 4, 111-114	54
863	Visible Light Photocatalytic Thiolene Reaction: An Elegant Approach for Fast Polymer Postfunctionalization and Step-Growth Polymerization. <b>2015</b> , 48, 520-529	124
862	Enhanced electrochemical performance of sulfur cathodes with a water-soluble binder. <b>2015</b> , 5, 13709-13714	49
861	Recent approaches for the direct use of elemental sulfur in the synthesis and processing of advanced materials. <b>2015</b> , 54, 3249-58	173
860	Inhibition of CO poisoning on Pt catalyst coupled with the reduction of toxic hexavalent chromium in a dual-functional fuel cell. <b>2014</b> , 4, 7450	52
859	Sulfur copolymer for the direct synthesis of ligand-free CdS nanoparticles. <b>2015</b> , 51, 11244-7	23
858	Preparation and characterization of a new cement-based composite with sulfur polymer. <b>2015</b> , 5, 36030-36035	11

857	An electrochemical approach to graphene oxide coated sulfur for long cycle life. <b>2015</b> , 7, 13249-55	19
856	Synthesis of three-dimensionally interconnected sulfur-rich polymers for cathode materials of high-rate lithium-sulfur batteries. <b>2015</b> , 6, 7278	300
855	Structurally dynamic hydrogels derived from 1,2-dithiolanes. <b>2015</b> , 137, 5650-3	110
854	Inverse vulcanization of elemental sulfur with 1,4-diphenylbutadiyne for cathode materials in LiS batteries. <b>2015</b> , 5, 24718-24722	114
853	High sulfur content polymer nanoparticles obtained from interfacial polymerization of sodium polysulfide and 1,2,3-trichloropropane in water. <b>2015</b> , 36, 1103-7	20
852	Systematic Effect for an Ultralong Cycle Lithium-Sulfur Battery. <b>2015</b> , 15, 7431-9	98
851	Catalyst-Free, Atom-Economic, Multicomponent Polymerizations of Aromatic Dienes, Elemental Sulfur, and Aliphatic Diamines toward Luminescent Polythioamides. <b>2015</b> , 48, 7747-7754	104
850	Copolymerization of Polythiophene and Sulfur To Improve the Electrochemical Performance in Lithium-Sulfur Batteries. <b>2015</b> , 27, 7011-7017	99
849	Review The Importance of Chemical Interactions between Sulfur Host Materials and Lithium Polysulfides for Advanced Lithium-Sulfur Batteries. <b>2015</b> , 162, A2567-A2576	263
848	Multiplex lithography for multilevel multiscale architectures and its application to polymer electrolyte membrane fuel cell. <b>2015</b> , 6, 8484	49
847	Room temperature rechargeable magnesium batteries with sulfur-containing composite cathodes prepared from elemental sulfur and bis(alkenyl) compound having a cyclic or linear ether unit. <b>2015</b> , 297, 323-328	32
846	Solution processable, cross-linked sulfur polymers as solid electrolytes in dye-sensitized solar cells. <b>2015</b> , 51, 14660-2	29
845	Dynamic Covalent Polymers via Inverse Vulcanization of Elemental Sulfur for Healable Infrared Optical Materials. <b>2015</b> , 4, 862-866	130
844	The beauty of frost: nano-sulfur assembly via low pressure vapour deposition. <b>2015</b> , 51, 15967-70	7
843	Sulfur-carbon yolk-shell particle based 3D interconnected nanostructures as cathodes for rechargeable lithium-sulfur batteries. <b>2015</b> , 3, 1853-1857	71
842	Macroporous free-standing nano-sulfur/reduced graphene oxide paper as stable cathode for lithium-sulfur battery. <b>2015</b> , 11, 678-686	169
841	Solution processable hyperbranched inverse-vulcanized polymers as new cathode materials in LiS batteries. <b>2015</b> , 6, 973-982	45
840	Rapid Mercury(II) Removal by Electrospun Sulfur Copolymers. <b>2016</b> , 8,	58

839	Melt processed elemental sulfur reinforced polyethylene composites. <b>2016</b> , 133, n/a-n/a	12
838	Elemental-Sulfur-Mediated Facile Synthesis of a Covalent Triazine Framework for High-Performance Lithium-Sulfur Batteries. <b>2016</b> , 128, 3158-3163	89
837	Elemental-Sulfur-Mediated Facile Synthesis of a Covalent Triazine Framework for High-Performance Lithium-Sulfur Batteries. <b>2016</b> , 55, 3106-11	249
836	Electrochemical activity of sulfur networks synthesized through RAFT polymerization. <b>2016</b> , 133,	13
835	Inverse Vulcanization of Sulfur using Natural Dienes as Sustainable Materials for Lithium-Sulfur Batteries. <b>2016</b> , 9, 3419-3425	81
834	Easy preparation of partially-opened carbon nanotubes by simple air oxidation for high performance LiS batteries. <b>2016</b> , 6, 113522-113526	7
833	Analytical Multimode Scanning and Transmission Electron Imaging and Tomography of Multiscale Structural Architectures of Sulfur Copolymer-Based Composite Cathodes for Next-Generation High-Energy Density Li-S Batteries. <b>2016</b> , 22, 1198-1221	10
832	A brief review: Past, present and future of lithium ion batteries. <b>2016</b> , 52, 1095-1121	97
831	Elemental Sulfur and Molybdenum Disulfide Composites for Li-S Batteries with Long Cycle Life and High-Rate Capability. <b>2016</b> , 8, 13437-48	92
830	Graphene quantum dots: structural integrity and oxygen functional groups for high sulfur/sulfide utilization in lithium sulfur batteries. <b>2016</b> , 8, e272-e272	78
829	Sulfur-Limonene Polysulfide: A Material Synthesized Entirely from Industrial By-Products and Its Use in Removing Toxic Metals from Water and Soil. <b>2016</b> , 55, 1714-8	158
828	Porous inverse vulcanised polymers for mercury capture. <b>2016</b> , 52, 5383-6	91
827	Sulfur-Limonene Polysulfide: A Material Synthesized Entirely from Industrial By-Products and Its Use in Removing Toxic Metals from Water and Soil. <b>2016</b> , 128, 1746-1750	24
826	Polymerizations with elemental sulfur: A novel route to high sulfur content polymers for sustainability, energy and defense. <b>2016</b> , 58, 90-125	224
825	A new configured lithiated silicon-sulfur battery built on 3D graphene with superior electrochemical performances. <b>2016</b> , 9, 2025-2030	86
824	Inverse vulcanization of bismaleimide and divinylbenzene by elemental sulfur for lithium sulfur batteries. <b>2016</b> , 80, 70-77	58
823	Efficient Polysulfide Chemisorption in Covalent Organic Frameworks for High-Performance Lithium-Sulfur Batteries. <b>2016</b> , 6, 1601250	181
822	[Fe(SCN) <sub>2</sub> (bipy) <sub>2</sub> ] <sub>2</sub> (S <sub>8</sub> ): A two-dimensional coordination polymer intercalating the S <sub>8</sub> molecules. <b>2016</b> , 72, 128-131	1

821	Redox-Active Supramolecular Polymer Binders for Lithium-Sulfur Batteries That Adapt Their Transport Properties in Operando. <b>2016</b> , 28, 7414-7421	40
820	Direct Utilization of Elemental Sulfur in the Synthesis of Microporous Polymers for Natural Gas Sweetening. <b>2016</b> , 1, 482-493	37
819	High Refractive Index Copolymers with Improved Thermomechanical Properties via the Inverse Vulcanization of Sulfur and 1,3,5-Triisopropenylbenzene. <b>2016</b> , 5, 1152-1156	107
818	Cardanol benzoxazine-Sulfur Copolymers for Li-S batteries: Symbiosis of Sustainability and Performance. <b>2016</b> , 1, 594-600	28
817	Covalent sulfur for advanced room temperature sodium-sulfur batteries. <b>2016</b> , 28, 304-310	139
816	Bi <sub>2</sub> S <sub>3</sub> in-situ formed in molten S environment stabilized sulfur cathodes for high-performance lithium-sulfur batteries. <b>2016</b> , 329, 379-386	18
815	Challenges and current development of sulfur cathode in lithium-sulfur battery. <b>2016</b> , 13, 53-62	21
814	Inverse vulcanization of sulfur with divinylbenzene: Stable and easy processable cathode material for lithium-sulfur batteries. <b>2016</b> , 329, 72-78	69
813	Shape-Controlled Synthesis of High-Quality Cu S Nanocrystals for Efficient Light-Induced Water Evaporation. <b>2016</b> , 12, 5320-5328	108
812	Rational Sulfur Cathode Design for Lithium-Sulfur Batteries: Sulfur-Embedded Benzoxazine Polymers. <b>2016</b> , 1, 566-572	88
811	Poly(paraphenylene sulfide) and Poly(metaphenylene sulfide) via Light-Initiated SRN 1-Type Polymerization of Halogenated Thiophenols. <b>2016</b> , 37, 1494-8	4
810	Designing high-energy lithium-sulfur batteries. <b>2016</b> , 45, 5605-5634	1475
809	Cardanol benzoxazines: A sustainable linker for elemental sulphur based copolymers via inverse vulcanisation. <b>2016</b> , 99, 349-357	54
808	MnO modified carbon nanotubes as a sulfur host with enhanced performance in Li/S batteries. <b>2016</b> , 4, 12858-12864	69
807	Suppressed Polysulfide Crossover in Li-S Batteries through a High-Flux Graphene Oxide Membrane Supported on a Sulfur Cathode. <b>2016</b> , 10, 7768-79	124
806	Promise and reality of post-lithium-ion batteries with high energy densities. <b>2016</b> , 1,	2575
805	A Facile Bottom-Up Approach to Construct Hybrid Flexible Cathode Scaffold for High-Performance Lithium-Sulfur Batteries. <b>2016</b> , 8, 33775-33785	38
804	Schwefel in der modernen Materialwissenschaft. <b>2016</b> , 128, 15712-15729	27

803	Sulfur and Its Role In Modern Materials Science. <b>2016</b> , 55, 15486-15502	211
802	Building better lithium-sulfur batteries: from LiNO <sub>3</sub> to solid oxide catalyst. <b>2016</b> , 6, 33154	71
801	A sulfur host based on titanium monoxide@carbon hollow spheres for advanced lithium-sulfur batteries. <b>2016</b> , 7, 13065	511
800	Sustainable Sulfur-rich Copolymer/Graphene Composite as Lithium-Sulfur Battery Cathode with Excellent Electrochemical Performance. <b>2016</b> , 6, 25207	57
799	Synthesis of Ligand-free CdS Nanoparticles within a Sulfur Copolymer Matrix. <b>2016</b> ,	
798	The rise of organic electrode materials for energy storage. <b>2016</b> , 45, 6345-6404	612
797	Porous carbons from inverse vulcanised polymers. <b>2016</b> , 232, 189-195	27
796	A Novel TiO <sub>2</sub> -Wrapped Activated Carbon Fiber/Sulfur Hybrid Cathode for High Performance Lithium Sulfur Batteries. <b>2016</b> , 210, 415-421	31
795	Electrochemical Lithiation of Covalently Bonded Sulfur in Vulcanized Polyisoprene. <b>2016</b> , 1, 115-120	44
794	Computational and experimental investigations of one-step conversion of poly(carbonate)s into value-added poly(aryl ether sulfone)s. <b>2016</b> , 113, 7722-6	45
793	Elemental sulfur-based polymeric materials: Synthesis and characterization. <b>2016</b> , 133,	33
792	Stable cross-linked amphiphilic polymers from a one-pot reaction for application in humidity sensors. <b>2016</b> , 227, 649-654	25
791	Enhancement of electrochemical properties by polysulfide trapping in a graphene-coated sulfur cathode on patterned current collector. <b>2016</b> , 52, 3203-6	14
790	Electrochemically active copolymers prepared from elemental sulfur and bis(alkenyl) compounds having crown ether unit. <b>2016</b> , 91, 1-6	11
789	Conformal Polymeric Multilayer Coatings on Sulfur Cathodes via the Layer-by-Layer Deposition for High Capacity Retention in LiS Batteries. <b>2016</b> , 5, 471-475	27
788	Triggering effect caused by elemental sulfur as a mean to reduce the polymerization temperature of benzoxazine monomers. <b>2016</b> , 6, 35144-35151	17
787	Novel gel polymer electrolyte for high-performance lithium-sulfur batteries. <b>2016</b> , 22, 278-289	289
786	Three-dimensional porous carbon composites containing high sulfur nanoparticle content for high-performance lithium-sulfur batteries. <b>2016</b> , 7, 10601	573



785	Immobilization of sulfur in microgels for lithium-sulfur battery. <b>2016</b> , 52, 4525-8	30
784	Ternary graphene/sulfur/SiO <sub>2</sub> composite as stable cathode for high performance lithium/sulfur battery. <b>2016</b> , 41, 1819-1827	34
783	A one-pot synthesis of polysulfane-bearing block copolymer nanoparticles with tunable size and refractive index. <b>2016</b> , 52, 2485-8	20
782	Polymers and the p-block elements. <b>2016</b> , 45, 922-53	158
781	Partially unzipped carbon nanotubes for high-rate and stable lithium-sulfur batteries. <b>2016</b> , 4, 819-826	66
780	Current trends in redox polymers for energy and medicine. <b>2016</b> , 52, 107-135	131
779	Copper-doped titania photocatalysts for simultaneous reduction of CO <sub>2</sub> and production of H <sub>2</sub> from aqueous sulfide. <b>2016</b> , 180, 263-270	87
778	Catalytic oxidation of Li <sub>2</sub> S on the surface of metal sulfides for Li-S batteries. <b>2017</b> , 114, 840-845	742
777	Sulfur-Immobilized, Activated Porous Carbon Nanotube Composite Based Cathodes for Lithium-Sulfur Batteries. <b>2017</b> , 13, 1602984	64
776	Insights into the Vulcanization Mechanism through a Simple and Facile Approach to the Sulfur Cleavage Behavior. <b>2017</b> , 50, 803-810	22
775	Polymer-Capped Sulfur Copolymers as Lithium-Sulfur Battery Cathode: Enhanced Performance by Combined Contributions of Physical and Chemical Confinements. <b>2017</b> , 121, 2495-2503	65
774	The strategies of advanced cathode composites for lithium-sulfur batteries. <b>2017</b> , 60, 175-185	19
773	Tungsten Disulfide Catalysts Supported on a Carbon Cloth Interlayer for High Performance LiS Battery. <b>2017</b> , 7, 1602567	233
772	Hydroxylated N-doped carbon nanotube-sulfur composites as cathodes for high-performance lithium-sulfur batteries. <b>2017</b> , 343, 54-59	67
771	Transforming waste newspapers into nitrogen-doped conducting interlayers for advanced LiS batteries. <b>2017</b> , 1, 444-449	24
770	The use of polymers in Li-S batteries: A review. <b>2017</b> , 55, 1635-1668	96
769	Recent Advances in Organic Reactions Involving Elemental Sulfur. <b>2017</b> , 359, 1066-1130	174
768	Chemo- and stereoselective polymerization of 3-methylenehepta-1,6-Diene and Its thiol-ene modification. <b>2017</b> , 55, 1031-1039	6

767	Easily Accessible, Textile Fiber-Based Sulfurized Poly(acrylonitrile) as Li/S Cathode Material: Correlating Electrochemical Performance with Morphology and Structure. <b>2017</b> , 2, 595-604	84
766	Sulfur-Rich Phosphorus Sulfide Molecules for Use in Rechargeable Lithium Batteries. <b>2017</b> , 56, 2937-2941	35
765	Green chemistry and polymers made from sulfur. <b>2017</b> , 19, 2748-2761	186
764	Sulfur-Rich Phosphorus Sulfide Molecules for Use in Rechargeable Lithium Batteries. <b>2017</b> , 129, 2983-2987	5
763	Regenerative Polysulfide-Scavenging Layers Enabling Lithium-Sulfur Batteries with High Energy Density and Prolonged Cycling Life. <b>2017</b> , 11, 2697-2705	111
762	A sulfur- $\beta$ -ugenol allyl ether copolymer: a material synthesized via inverse vulcanization from renewable resources and its application in LiS batteries. <b>2017</b> , 1, 1818-1822	46
761	Chalcogenide Hybrid Inorganic/Organic Polymers: Ultrahigh Refractive Index Polymers for Infrared Imaging. <b>2017</b> , 6, 500-504	83
760	A Quinonoid-Imine-Enriched Nanostructured Polymer Mediator for Lithium-Sulfur Batteries. <b>2017</b> , 29, 1606802	107
759	Review on High-Loading and High-Energy Lithium-Sulfur Batteries. <b>2017</b> , 7, 1700260	1010
758	Cross-Linked Sulfur-Selenium Polymers as Hole-Transporting Materials in Dye-Sensitized Solar Cells and Perovskite Solar Cells. <b>2017</b> , 1, 363-368	11
757	Reversible multi-electron redox chemistry of $\pi$ -conjugated N-containing heteroaromatic molecule-based organic cathodes. <b>2017</b> , 2,	292
756	Nucleophilic substitution between polysulfides and binders unexpectedly stabilizing lithium sulfur battery. <b>2017</b> , 38, 82-90	89
755	A composite of hollow carbon nanospheres and sulfur-rich polymers for lithium-sulfur batteries. <b>2017</b> , 357, 11-18	48
754	Soluble sulfur-based copolymers prepared from elemental sulfur and alkenyl alcohol as positive active material for lithium-sulfur batteries. <b>2017</b> , 117, 225-230	15
753	Graphene-supported highly crosslinked organosulfur nanoparticles as cathode materials for high-rate, long-life lithium-sulfur battery. <b>2017</b> , 122, 106-113	49
752	Multimodal Characterization of the Morphology and Functional Interfaces in Composite Electrodes for Li-S Batteries by Li Ion and Electron Beams. <b>2017</b> , 33, 9361-9377	7
751	Characterization of liquid state sulfur polymer/epoxy blend as asphalt pavement materials. <b>2017</b> , 53, 386-391	14
750	Green synthesis of Sulphur Nanoparticles assisted by a herbal surfactant in aqueous solutions. <b>2017</b> , 12, 329-334	19

749	How to make inert boron nitride nanosheets active for the immobilization of polysulfides for lithium-sulfur batteries: a computational study. <b>2017</b> , 19, 18208-18216	28
748	Cathode materials for lithium-sulfur batteries: a practical perspective. <b>2017</b> , 5, 17734-17776	167
747	The Importance of Confined Sulfur Nanodomains and Adjoining Electron Conductive Pathways in Subreaction Regimes of Li-S Batteries. <b>2017</b> , 7, 1700074	75
746	Flexible sulfur film from inverse vulcanization technique. <b>2017</b> , 203, 58-61	30
745	Red green blue emissive lead sulfide quantum dots: heterogeneous synthesis and applications. <b>2017</b> , 5, 3692-3698	16
744	Solid-State Lithium-Sulfur Batteries Operated at 37 °C with Composites of Nanostructured LiLaZrO/Carbon Foam and Polymer. <b>2017</b> , 17, 2967-2972	297
743	Reactive Hybrid of Polyhedral Oligomeric Silsesquioxane (POSS) and Sulfur as a Building Block for Self-Healing Materials. <b>2017</b> , 38, 1700051	27
742	Influence of filler type and loading on cure characteristics and vulcanisate properties of SBR compounds with a novel mixed vulcanisation system. <b>2017</b> , 46, 137-145	5
741	Instantaneous carbonization of an acetylenic polymer into highly conductive graphene-like carbon and its application in lithium-sulfur batteries. <b>2017</b> , 5, 7015-7025	19
740	Low cost and renewable sulfur-polymers by inverse vulcanisation, and their potential for mercury capture. <b>2017</b> , 5, 11682-11692	128
739	Metal Sulfide-Blended Sulfur Cathodes in High Energy Lithium-Sulfur Cells. <b>2017</b> , 164, A265-A276	35
738	A Sulfur-Rich Copolymer@CNT Hybrid Cathode with Dual-Confinement of Polysulfides for High-Performance Lithium-Sulfur Batteries. <b>2017</b> , 29, 1603835	167
737	ORMOCHALCs: organically modified chalcogenide polymers for infrared optics. <b>2016</b> , 53, 259-262	32
736	Thiol-based electrolyte additives for high-performance lithium-sulfur batteries. <b>2017</b> , 32, 50-58	71
735	Selenide-containing high refractive index polymer material with adjustable refractive index and Abbe's number. <b>2017</b> , 111, 1-6	31
734	Greatly Suppressed Shuttle Effect for Improved Lithium Sulfur Battery Performance through Short Chain Intermediates. <b>2017</b> , 17, 538-543	216
733	Redox-Active Polymers for Energy Storage Nanoarchitectonics. <b>2017</b> , 1, 739-768	263
732	Fluorinated, Sulfur-Rich, Covalent Triazine Frameworks for Enhanced Confinement of Polysulfides in Lithium-Sulfur Batteries. <b>2017</b> , 9, 37731-37738	130

731	An Extremely High Surface Area Mesoporous-Microporous-Networked Pillared Carbon for High Stability Li-S and Intermediate Temperature Na-S Batteries. <b>2017</b> , 2, 9249-9255	11
730	Organosulfide-plasticized solid-electrolyte interphase layer enables stable lithium metal anodes for long-cycle lithium-sulfur batteries. <b>2017</b> , 8, 850	192
729	Stabilized Lithium-Sulfur Batteries by Covalently Binding Sulfur onto the Thiol-Terminated Polymeric Matrices. <b>2017</b> , 13, 1702104	29
728	High coulombic efficiency and high-rate capability lithium sulfur batteries with low-solubility lithium polysulfides by using alkylene radicals to covalently connect sulfur. <b>2017</b> , 41, 758-764	29
727	Polythioamides of High Refractive Index by Direct Polymerization of Aliphatic Primary Diamines in the Presence of Elemental Sulfur. <b>2017</b> , 50, 8505-8511	39
726	Perfluoroaryl-Elemental Sulfur SNAr Chemistry in Covalent Triazine Frameworks with High Sulfur Contents for Lithium-Sulfur Batteries. <b>2017</b> , 27, 1703947	118
725	Dynamic polysulfide shape memory networks derived from elemental sulfur and their dual thermo-/photo-induced solid-state plasticity. <b>2017</b> , 121, 8-14	18
724	Synthesis of sulfur-rich nanoparticles using self-assembly of amphiphilic block copolymer and a site-selective cross-linking reaction. <b>2017</b> , 126, 188-195	4
723	The synthesis of PbS nanocrystals from lead(II) -octylxanthate within a 1,3-diisopropenylbenzene-bisphenol A dimethacrylate sulfur copolymer. <b>2017</b> , 4, 170383	11
722	Advances in lithium-sulfur batteries. <b>2017</b> , 121, 1-29	77
721	Emerging Applications of Dynamic Covalent Chemistry from Macro- to Nanoscopic Length Scales. <b>2017</b> , 389-434	
720	High sulfur-containing carbon polysulfide polymer as a novel cathode material for lithium-sulfur battery. <b>2017</b> , 7, 11386	35
719	Main-Group Rings, Chains, and Polymer Compounds. <b>2017</b> , 1-33	1
718	Conducting Polymers Crosslinked with Sulfur as Cathode Materials for High-Rate, Ultralong-Life Lithium-Sulfur Batteries. <b>2017</b> , 10, 3378-3386	76
717	Nanosilicon anodes for high performance rechargeable batteries. <b>2017</b> , 90, 1-44	133
716	Oligoanilines as a suppressor of polysulfide shuttling in lithium-sulfur batteries. <b>2017</b> , 4, 908-914	19
715	Selenium-Doped Cathodes for Lithium-Organosulfur Batteries with Greatly Improved Volumetric Capacity and Coulombic Efficiency. <b>2017</b> , 29, 1701294	91
714	Recycling and Self-Healing of Polybenzoxazines with Dynamic Sulfide Linkages. <b>2017</b> , 7, 5207	65

713	Laying Waste to Mercury: Inexpensive Sorbents Made from Sulfur and Recycled Cooking Oils. <b>2017</b> , 23, 16219-16230	123
712	New electrochemical energy storage systems based on metallic lithium anode: The research status, problems and challenges of lithium-sulfur, lithium-oxygen and all solid state batteries. <b>2017</b> , 60, 1402-1412	23
711	Room Temperature Multicomponent Polymerizations of Alkynes, Sulfonyl Azides, and Iminophosphorane toward Heteroatom-Rich Multifunctional Poly(phosphorus amidine)s. <b>2017</b> , 50, 6043-6053	35
710	High surface area sulfur-doped microporous carbons from inverse vulcanised polymers. <b>2017</b> , 5, 18603-18609	35
709	Atomic Sulfur Anchored on Silicene, Phosphorene, and Borophene for Excellent Cycle Performance of Li-S Batteries. <b>2017</b> , 9, 42836-42844	41
708	Primary AlkylphosphineBorane Polymers: Synthesis, Low Glass Transition Temperature, and a Predictive Capability Thereof. <b>2017</b> , 50, 9239-9248	19
707	Facile and Scalable Synthesis of Copolymer-Sulfur Composites as Cathodes for High Performance Lithium-Sulfur Batteries. <b>2017</b> , 2, 3271-3276	7
706	Garlic-inspired trisulfide linkers for thiol-stimulated HS release. <b>2017</b> , 53, 8030-8033	25
705	A new approach for recycling waste rubber products in LiS batteries. <b>2017</b> , 10, 86-90	69
704	Li-S and Li-O <sub>2</sub> Batteries with High Specific Energy. <b>2017</b> ,	6
703	LiS and LiO <sub>2</sub> Batteries with High Specific Energy. <b>2017</b> , 1-48	3
702	A Novel Lithiated Silicon-Sulfur Battery Exploiting an Optimized Solid-Like Electrolyte to Enhance Safety and Cycle Life. <b>2017</b> , 13, 1602015	25
701	From waste to valuable plastics: Discovery of new paradigms from well-studied systems with elemental sulfur. <b>2017</b> , 192, 157-161	5
700	Sulfur-Embedded Activated Multichannel Carbon Nanofiber Composites for Long-Life, High-Rate LithiumSulfur Batteries. <b>2017</b> , 7, 1601943	165
699	Effective strategies for stabilizing sulfur for advanced lithiumSulfur batteries. <b>2017</b> , 5, 448-469	124
698	Sulfur-Based Polymer Composites from Vegetable Oils and Elemental Sulfur: A Sustainable Active Material for LiS Batteries. <b>2017</b> , 218, 1600303	78
697	Preparation of organic-inorganic hybrid polymers and their humidity sensing properties. <b>2017</b> , 242, 1108-1114	29
696	Fe-Based Metal-Organic Framework and Its Derivatives for Reversible Lithium Storage. <b>2017</b> , 33, 768-774	23

695	Inverse vulcanization of elemental sulfur and styrene for polymeric cathodes in Li-S batteries. <b>2017</b> , 55, 107-116	101
694	Molecular understanding of polyelectrolyte binders that actively regulate ion transport in sulfur cathodes. <b>2017</b> , 8, 2277	100
693	. <b>2017</b> ,	11
692	. <b>2017</b> ,	45
691	Mechanical and Electrical Properties of Sulfur-Containing Polymeric Materials Prepared via Inverse Vulcanization. <b>2017</b> , 9,	38
690	Sulfur Radical Transfer and Coupling Reaction to Benzoxazine Groups: A New Reaction Route for Preparation of Polymeric Materials Using Elemental Sulfur as a Feedstock. <b>2018</b> , 39, e1700832	23
689	Room Temperature One-Step Conversion from Elemental Sulfur to Functional Polythioureas through Catalyst-Free Multicomponent Polymerizations. <b>2018</b> , 140, 6156-6163	121
688	Sustainable Polysulfides for Oil Spill Remediation: Repurposing Industrial Waste for Environmental Benefit. <b>2018</b> , 2, 1800024	77
687	Revisiting the Role of Polysulfides in Lithium-Sulfur Batteries. <b>2018</b> , 30, e1705590	291
686	Novel lignocellulose based gel polymer electrolyte with higher comprehensive performances for rechargeable lithium-sulfur battery. <b>2018</b> , 556, 203-213	47
685	Mechanism for the Stable Performance of Sulfur-Copolymer Cathode in Lithium-Sulfur Battery Studied by Solid-State NMR Spectroscopy. <b>2018</b> , 30, 2915-2923	33
684	Electronic Structure Characterization of Cross-Linked Sulfur Polymers. <b>2018</b> , 19, 1041-1047	2
683	Reorganizable and stimuli-responsive polymers based on dynamic carbon-carbon linkages in diarylbibenzofuranones. <b>2018</b> , 137, 395-413	26
682	SiC <sub>2</sub> siligraphene as a promising anchoring material for lithium-sulfur batteries: a computational study. <b>2018</b> , 440, 889-896	26
681	High-performance Li-Se battery cathode based on CoSe <sub>2</sub> -porous carbon composites. <b>2018</b> , 264, 341-349	33
680	An Aqueous Inorganic Polymer Binder for High Performance Lithium-Sulfur Batteries with Flame-Retardant Properties. <b>2018</b> , 4, 260-267	107
679	Self-Formed Hybrid Interphase Layer on Lithium Metal for High-Performance Lithium-Sulfur Batteries. <b>2018</b> , 12, 1500-1507	114
678	Metal/Graphene Composites with Strong Metal-S Bondings for Sulfur Immobilization in LiS Batteries. <b>2018</b> , 122, 3263-3272	23

677	New Spin on Organic Radical Batteries-An Isoindoline Nitroxide-Based High-Voltage Cathode Material. <b>2018</b> , 10, 7982-7988	42
676	A Sulfur-Limonene-Based Electrode for Lithium-Sulfur Batteries: High-Performance by Self-Protection. <b>2018</b> , 30, e1706643	85
675	Direct Observation of Electrochemical Lithium-Sulfur Reaction inside Carbon Nanotubes. <b>2018</b> , 1, 807-813	13
674	Solution-based Sulfur-Polymer Coating on Nanofibrillar Films for Immobilization of Aqueous Mercury Ions. <b>2018</b> , 39, 84-89	4
673	High recycling efficiency and elemental sulfur purity achieved in a biofilm formed membrane filtration reactor. <b>2018</b> , 130, 1-12	29
672	Surface Properties and Antimicrobial Activity of Poly(sulfur-co-1,3-diisopropenylbenzene) Copolymers. <b>2018</b> , 219, 1700497	36
671	Direct visualization of sulfur cathodes: new insights into Li-S batteries via X-ray based methods.. <b>2018</b> , 8, 202-210	67
670	Design of structural and functional nanomaterials for lithium-sulfur batteries. <b>2018</b> , 18, 35-64	82
669	High Sulfur Content Organic/Inorganic Hybrid Polymeric Materials. <b>2018</b> , 433-450	0
668	The Mercury Problem in Artisanal and Small-Scale Gold Mining. <b>2018</b> , 24, 6905-6916	154
667	Polysulfides made from re-purposed waste are sustainable materials for removing iron from water.. <b>2018</b> , 8, 1232-1236	49
666	Highly crosslinked organosulfur copolymer nanosheets with abundant mesopores as cathode materials for efficient lithium-sulfur batteries. <b>2018</b> , 263, 53-59	35
665	Porous Organic Polymers for Polysulfide Trapping in Lithium-Sulfur Batteries. <b>2018</b> , 28, 1707597	115
664	S-containing copolymer as cathode material in poly(ethylene oxide)-based all-solid-state Li-S batteries. <b>2018</b> , 390, 148-152	33
663	Hydrogenation of petroleum resins in the presence of supported sulfide catalysts. <b>2018</b> , 58, 48-55	10
662	Polymer engineering based on reversible covalent chemistry: A promising innovative pathway towards new materials and new functionalities. <b>2018</b> , 80, 39-93	285
661	Thiol functionalized carbon nanotubes: Synthesis by sulfur chemistry and their multi-purpose applications. <b>2018</b> , 447, 235-243	22
660	NMR and EPR Structural Analysis and Stability Study of Inverse Vulcanized Sulfur Copolymers. <b>2018</b> , 3, 3330-3339	19

- 659 Progress and perspective of organosulfur polymers as cathode materials for advanced lithium-sulfur batteries. **2018**, 15, 53-64 90
- 658 Poly(anthraquinonyl sulfides): High Capacity Redox Polymers for Energy Storage. **2018**, 7, 419-424 53
- 657 A "waiting" carbon nitride radical anion: a charge storage material and key intermediate in direct C-H thiolation of methylenes using elemental sulfur as the "S"-source. **2018**, 9, 3584-3591 69
- 656 Adapting benzoxazine chemistry for unconventional applications. **2018**, 129, 76-88 74
- 655 Porous sulphur copolymer for gas-phase mercury removal and thermal insulation. **2018**, 332, 1-7 57
- 654 3D Printing Sulfur Copolymer-Graphene Architectures for Li-S Batteries. **2018**, 8, 1701527 148
- 653 The Quest for Sulfur-Containing Photoactive Materials: Molecular Precursors, Structures and Applications. **2018**, 2, 136-147 2
- 652 Nanostructured Host Materials for Trapping Sulfur in Rechargeable LiS Batteries: Structure Design and Interfacial Chemistry. **2018**, 2, 1700279 159
- 651 Effects of olefin and acid stabilizers on the properties of insoluble sulfur. **2018**, 735, 821-827 2
- 650 Covalently Grafted Polysulfur/Graphene Nanocomposites for Ultrahigh Sulfur-Loading Lithium Polysulfur Batteries. **2018**, 3, 72-77 53
- 649 Long-chain solid organic polysulfide cathode for high-capacity secondary lithium batteries. **2018**, 12, 30-36 20
- 648 Hybrid Sulfur/Bismuth Co-polymers as Cathodic Materials for Lithium Batteries. **2018**, 5, 260-265 19
- 647 Recent Advances in Applying Vulcanization/Inverse Vulcanization Methods to Achieve High-Performance Sulfur-Containing Polymer Cathode Materials for LiS Batteries. **2018**, 2, 1800156 42
- 646 Alternative binders for sustainable electrochemical energy storage [the transition to aqueous electrode processing and bio-derived polymers. **2018**, 11, 3096-3127 234
- 645 Thermally-healable network solids of sulfur-crosslinked poly(4-allyloxystyrene).. **2018**, 8, 39074-39082 24
- 644 Aqueous polysulfide-ene polymerization for sulfur-rich nanoparticles and their use in heavy metal ion remediation. **2018**, 6, 23542-23549 13
- 643 Polymerization of elemental sulfur with various divinyl and diallyl monomers and properties of the copolymers. **2018**, 193, 752-758 10
- 642 Sulfur-oleyl amine platelet derivatives with liquid crystalline behavior.. **2018**, 8, 41480-41483 3



641	Sulfur/Organic Copolymers as Curing Agents for Rubber. <b>2018</b> , 10,	15
640	Sulfur-Rich Polymers with Functional Linkers for High-Capacity and Fast-Charging Lithium Sulfur Batteries. <b>2018</b> , 8, 1802423	55
639	A Review of Functional Binders in Lithium Sulfur Batteries. <b>2018</b> , 8, 1802107	203
638	Polyphenylene Tetrasulfide as an Inherently Flexible Cathode Material for Rechargeable Lithium Batteries. <b>2018</b> , 1, 5859-5864	41
637	Metal-organic framework-74-Ni/carbon nanotube composite as sulfur host for high performance lithium-sulfur batteries. <b>2018</b> , 830-831, 43-49	29
636	Controllable Synthesis and Characterization of Soybean-Oil-Based Hyperbranched Polymers via One-Pot Method. <b>2018</b> , 6, 12865-12871	14
635	Dynamic Sulfur Bonds Initiate Polymerization of Vinyl and Allyl Ethers at Mild Temperatures. <b>2018</b> , 51, 7233-7238	43
634	Inverse-vulcanization of vinyl functionalized covalent organic frameworks as efficient cathode materials for LIB batteries. <b>2018</b> , 6, 17977-17981	91
633	One Dimensional Photonic Crystals Using Ultrahigh Refractive Index Chalcogenide Hybrid Inorganic/Organic Polymers. <b>2018</b> , 7, 875-880	43
632	A Stable Quasi-Solid-State Sodium-Sulfur Battery. <b>2018</b> , 57, 10168-10172	128
631	Biological sulfur oxidation in wastewater treatment: A review of emerging opportunities. <b>2018</b> , 143, 399-415	112
630	A Stable Quasi-Solid-State Sodium Sulfur Battery. <b>2018</b> , 130, 10325-10329	12
629	Photoredox Catalytic Organic Transformations using Heterogeneous Carbon Nitrides. <b>2018</b> , 57, 15936-15947	215
628	Exploring a naturally tailored small molecule for stretchable, self-healing, and adhesive supramolecular polymers. <b>2018</b> , 4, eaat8192	224
627	Solar-Driven Synchronous Photoelectrochemical Sulfur Recovery and Pollutant Degradation. <b>2018</b> , 6, 9591-9595	4
626	Photoredoxkatalytische organische Umwandlungen an heterogenen Kohlenstoffnitriden. <b>2018</b> , 130, 16164-16176	37
625	Sulfur Diffusion within Nitrogen-Doped Ordered Mesoporous Carbons Determined by in Situ X-ray Scattering. <b>2018</b> , 34, 8767-8776	6
624	Techno-economic analysis of a biological desulfurization process for a landfill gas in Korea. <b>2018</b> , 53, 2769-2781	3

623	Heterogeneous/Homogeneous Mediators for High-Energy-Density Lithium-Sulfur Batteries: Progress and Prospects. <b>2018</b> , 28, 1707536	197
622	Facile synthesis of three dimensional porous cellular carbon as sulfur host for enhanced performance lithium sulfur batteries. <b>2018</b> , 284, 400-407	18
621	A general method to improve 3D-printability and inter-layer adhesion in lignin-based composites. <b>2018</b> , 12, 138-152	83
620	Sulfur Radicals and Their Application. <b>2018</b> , 376, 22	24
619	Selenide-Containing Polyimides with an Ultrahigh Intrinsic Refractive Index. <b>2018</b> , 10,	17
618	Approaches to Sustainable and Continually Recyclable Cross-Linked Polymers. <b>2018</b> , 6, 11145-11159	196
617	High sulfur content polymers: The effect of crosslinker structure on inverse vulcanization. <b>2018</b> , 56, 1777-1781	42
616	Sustainable inverse-vulcanised sulfur polymers.. <b>2018</b> , 8, 27892-27899	49
615	Controlled Synthesis of Sulfur-Rich Polymeric Selenium Sulfides as Promising Electrode Materials for Long-Life, High-Rate Lithium Metal Batteries. <b>2018</b> , 10, 29565-29573	30
614	A Universal Strategy To Prepare Sulfur-Containing Polymer Composites with Desired Morphologies for Lithium-Sulfur Batteries. <b>2018</b> , 10, 22002-22012	12
613	A compatible carbonate electrolyte with lithium anode for high performance lithium sulfur battery. <b>2018</b> , 282, 555-562	27
612	Humidity Sensor Preparation by In Situ Click Polymerization. <b>2018</b> , 39, 1234-1237	9
611	Highly conductive copolymer/sulfur composites with covalently grafted polyaniline for stable and durable lithium-sulfur batteries. <b>2019</b> , 321, 134678	25
610	Infrared transmitting polyimides based on chalcogenide element-blocks with tunable high-refractive indices and broad optical windows. <b>2019</b> , 7, 10574-10580	6
609	A New Conjugated Porous Polymer with Covalently Linked Polysulfide as Cathode Material for High-Rate Capacity and High Coulombic Efficiency Lithium-Sulfur Batteries. <b>2019</b> , 123, 21327-21335	14
608	Elucidation of structures and lithium environments for an organo-sulfur cathode. <b>2019</b> , 21, 18667-18679	5
607	A ternary system for delayed curing inverse vulcanisation. <b>2019</b> , 55, 10681-10684	20
606	Adaptable and Reprogrammable Surfaces. <b>2019</b> , 31, e1902665	15

605	A highly conductive conjugated coordination polymer for fast-charge sodium-ion batteries: reconsidering its structures. <b>2019</b> , 55, 10856-10859	36
604	Inverse vulcanization of sulfur with vinylic POSS. <b>2019</b> , 40, 587-597	7
603	Methods and Principles of Functionalization. <b>2019</b> , 11-94	
602	Sustainable production of reduced graphene oxide using elemental sulfur for multifunctional composites. <b>2019</b> , 176, 107236	12
601	Durable Cellulose/Sulfur Composites Derived from Agricultural and Petrochemical Waste. <b>2019</b> , 3, 1900062	26
600	Organosulfides: An Emerging Class of Cathode Materials for Rechargeable Lithium Batteries. <b>2019</b> , 52, 2290-2300	102
599	Synthesis of Poly(phenylene polysulfide) Networks from Elemental Sulfur and p-Diodobenzene for Stretchable, Healable, and Reprocessable Infrared Optical Applications. <b>2019</b> , 8, 912-916	21
598	A Facile Strategy to Improve the Electrochemical Performance of Porous Organic Polymer-Based Lithium/Sulfur Batteries. <b>2019</b> , 7, 1900583	11
597	Water-insoluble hydrophilic polysulfides as microfibrinous composites towards highly effective and practical Hg <sup>2+</sup> capture. <b>2019</b> , 378, 122216	10
596	Combining agriculture and energy industry waste products to yield recyclable, thermally healable copolymers of elemental sulfur and oleic acid. <b>2019</b> , 57, 1704-1710	33
595	Copolymerization of vegetable oils and bio-based monomers with elemental sulfur: A new promising route for bio-based polymers. <b>2019</b> , 13, 100158	19
594	Synergistic Effect of Covalent Bonding and Physical Encapsulation of Sulfur in the Pores of a Microporous COF to Improve Cycling Performance in Li-S Batteries. <b>2019</b> , 25, 12394-12404	28
593	Synthesis of high refractive index polymer with pendent selenium-containing maleimide and use as a redox sensor. <b>2019</b> , 10, 4279-4286	18
592	Sulfur-anchored azulene as a cathode material for Li-S batteries. <b>2019</b> , 55, 9047-9050	18
591	Recent Progress on COS-derived Polymers. <b>2019</b> , 37, 951-958	12
590	An insoluble naphthalenediimide derivative as a highly stable cathode material for lithium-ion batteries. <b>2019</b> , 236, 121815	6
589	Infrared Fingerprint Engineering: A Molecular-Design Approach to Long-Wave Infrared Transparency with Polymeric Materials. <b>2019</b> , 131, 17820-17824	8
588	Simultaneous Leaching of Seafloor Massive Sulfides and Polymetallic Nodules. <b>2019</b> , 9, 482	4

- 587 Rational molecular design of polymeric materials toward efficient triboelectric energy harvesting. **2019**, 66, 104158 22
- 586 Infrared Fingerprint Engineering: A Molecular-Design Approach to Long-Wave Infrared Transparency with Polymeric Materials. **2019**, 58, 17656-17660 28
- 585 Short-Chain Polyselenosulfide Copolymers as Cathode Materials for Lithium-Sulfur Batteries. **2019**, 11, 45785-45795 17
- 584 Catalyst-Free Construction of Versatile and Functional CS<sub>2</sub>-Based Polythioureas: Characteristics from Self-Healing to Heavy Metal Absorption. **2019**, 52, 8596-8603 18
- 583 Recent Advances in Cathode Materials for Room-Temperature Sodium-Sulfur Batteries. **2019**, 20, 3164-3176 17
- 582 Optical Properties of a Sulfur-Rich Organically Modified Chalcogenide Polymer Synthesized via Inverse Vulcanization and Containing an Organometallic Comonomer. **2019**, 8, 113-116 44
- 581 New Sulfur Organic Polymer-Concrete Composites Containing Waste Materials: Mechanical Characteristics and Resistance to Biocorrosion. **2019**, 12, 10
- 580 Three-Component Regio- and Stereoselective Polymerizations toward Functional Chalcogen-Rich Polymers with AIE-Activities. **2019**, 141, 14712-14719 35
- 579 Polysulfides Synthesized from Renewable Garlic Components and Repurposed Sulfur Form Environmentally Friendly Adhesives. **2019**, 11, 35312-35318 37
- 578 Efficient Synthesis and Characterization of Robust MoS<sub>2</sub> and S Cathode for Advanced Li-S Battery: Combined Experimental and Theoretical Studies. **2019**, 11, 35729-35737 8
- 577 Stabilizing cathodes of lithium-sulfur batteries by the chemical binding of sulfur and their discharge products to carbon nanofibers. **2019**, 43, 15267-15274 4
- 576 Fluorinated Covalent Organic Polymers for High Performance Sulfur Cathodes in Lithium-Sulfur Batteries. **2019**, 31, 7910-7921 39
- 575 Redox-active polymers (redoxmers) for electrochemical energy storage. **2019**, 9, 1151-1167 8
- 574 Impact of pyrone group on HS catalytic oxidization. **2019**, 695, 133875 2
- 573 Combining polybenzoxazines and polybutadienes via simultaneous inverse and direct vulcanization for flexible and recyclable thermosets by polysulfide dynamic bonding. **2019**, 10, 5743-5750 17
- 572 Microbial Ecology of Biofiltration Units Used for the Desulfurization of Biogas. **2019**, 3, 72 12
- 571 Nanowires for Electrochemical Energy Storage. **2019**, 119, 11042-11109 167
- 570 Sulfur polymer composites as controlled-release fertilisers. **2019**, 17, 1929-1936 65

569	Cross-Linkable and Self-Foaming Polysulfide Materials for Repairable and Mercury Capture Applications. <b>2019</b> , 7, 4515-4522	26
568	Enhancing the performance of sulfurized polyacrylonitrile cathode by in-situ wrapping. <b>2019</b> , 835, 156-160	7
567	Poly(ionic liquid)zinc polyoxometalate composite as a binder-free cathode for high-performance lithium sulfur batteries. <b>2019</b> , 7, 3018-3023	14
566	Polyisoprene Captured Sulfur Nanocomposite Materials for High-Areal-Capacity Lithium Sulfur Battery. <b>2019</b> , 1, 1965-1970	27
565	Recent advances in the polymerization of elemental sulphur, inverse vulcanization and methods to obtain functional Chalcogenide Hybrid Inorganic/Organic Polymers (CHIPs). <b>2019</b> , 10, 4078-4105	102
564	Gas Permeation of Sulfur Thin-Films and Potential as a Barrier Material. <b>2019</b> , 9,	
563	Modeling of an Autothermal Reactor for the Catalytic Oxidative Decomposition of H <sub>2</sub> S to H <sub>2</sub> and Sulfur. <b>2019</b> , 58, 10264-10270	1
562	Transparent, Highly Stretchable, Rehealable, Sensing, and Fully Recyclable Ionic Conductors Fabricated by One-Step Polymerization Based on a Small Biological Molecule. <b>2019</b> , 29, 1902467	74
561	Crosslinker Copolymerization for Property Control in Inverse Vulcanization. <b>2019</b> , 25, 10433-10440	51
560	Chemically encoded self-organized quantum chain supracrystals with exceptional charge and ion transport properties. <b>2019</b> , 62, 764-771	14
559	Recent Progress on Organic Electrodes Materials for Rechargeable Batteries and Supercapacitors. <b>2019</b> , 12,	67
558	Polymer Supported Carbon for Safe and Effective Remediation of PFOA- and PFOS-Contaminated Water. <b>2019</b> , 7, 11044-11049	27
557	A Comprehensive Understanding of Lithium Sulfur Battery Technology. <b>2019</b> , 29, 1901730	156
556	Post-synthetic modification of covalent organic frameworks. <b>2019</b> , 48, 3903-3945	232
555	Valorisation of waste to yield recyclable composites of elemental sulfur and lignin. <b>2019</b> , 7, 15683-15690	50
554	Sustainable applications utilizing sulfur, a by-product from oil and gas industry: A state-of-the-art review. <b>2019</b> , 95, 78-89	22
553	Poly(sulfur-random-(1,3-diisopropenylbenzene)) based mid-wavelength infrared polarizer: Optical property experimental and theoretical analysis. <b>2019</b> , 176, 118-126	45
552	Synthesis of Terpolymers at Mild Temperatures Using Dynamic Sulfur Bonds in Poly(S-Divinylbenzene). <b>2019</b> ,	0

551	Synthesis and Applications of Polymers Made by Inverse Vulcanization. <b>2019</b> , 377, 16	42
550	Multiple Covalent Triazine Frameworks with Strong Polysulfide Chemisorption for Enhanced Lithium-Sulfur Batteries. <b>2019</b> , 6, 2777-2781	15
549	Energy-storage covalent organic frameworks: improving performance engineering polysulfide chains on walls. <b>2019</b> , 10, 6001-6006	76
548	A linear molecule sulfur-rich organic cathode material for high performance lithium-sulfur batteries. <b>2019</b> , 430, 210-217	21
547	Synthesis and Characterization of Sulfur-Based Polymers from Elemental Sulfur and Algae Oil. <b>2019</b> , 1, 1195-1202	23
546	A kinetic study on the para-fluoro-thiol reaction in view of its use in materials design. <b>2019</b> , 10, 2781-2791	14
545	Poly(thioether)s from Closed-System One-Pot Reaction of Carbonyl Sulfide and Epoxides by Organic Bases. <b>2019</b> , 141, 5490-5496	39
544	High sulfur content multifunctional conducting polymer composite electrodes for stable Li-S battery. <b>2019</b> , 306, 489-497	32
543	Structural Engineering of Cathode Materials for Lithium-Sulfur Batteries. <b>2019</b> , 1-28	1
542	Covalent Confinement of Sulfur Copolymers onto Graphene Sheets Affords Ultrastable Lithium-Sulfur Batteries with Fast Cathode Kinetics. <b>2019</b> , 11, 13234-13243	35
541	Functionalized polysulfide copolymers with 4-vinylpyridine via inverse vulcanization. <b>2019</b> , 19, 336-341	14
540	Tuning the electrochemical behavior of organodisulfides in rechargeable lithium batteries using N-containing heterocycles. <b>2019</b> , 7, 7423-7429	31
539	Sulfur Chemistry in Polymer and Materials Science. <b>2019</b> , 40, e1800650	113
538	Polyphenyl polysulfide: a new polymer cathode material for Li-S batteries. <b>2019</b> , 55, 4857-4860	30
537	Electrospun nanostructures for conversion type cathode (S, Se) based lithium and sodium batteries. <b>2019</b> , 7, 11613-11650	41
536	Semiaromatic Poly(thioester) from the Copolymerization of Phthalic Thioanhydride and Epoxide: Synthesis, Structure, and Properties. <b>2019</b> , 52, 2439-2445	15
535	Untying thioether bond structures enabled by "voltage-scissors" for stable room temperature sodium-sulfur batteries. <b>2019</b> , 11, 5967-5973	52
534	Functional Polymeric Materials Based on Main-Group Elements. <b>2019</b> , 58, 5846-5870	109

533	Ring-Opening Polymerization of Cyclic Phosphonates: Access to Inorganic Polymers with a P-O Main Chain. <b>2019</b> , 141, 2894-2899	6
532	Catalytic inverse vulcanization. <b>2019</b> , 10, 647	71
531	Preparation and processing of porous sulfur foams having low thermal conductivity.. <b>2019</b> , 9, 4397-4403	11
530	Squalene-derived sulfur-rich copolymer@ 3D graphene-carbon nanotube network cathode for high-performance lithium-sulfur batteries. <b>2019</b> , 162, 147-154	12
529	Substituting copolymeric poly(alkylenetetrasulfide) for elemental sulfur to diminish the shuttling effect of modified intermediate polysulfides for high-performance lithium-sulfur batteries. <b>2019</b> , 55, 3729-3732	9
528	Ultrauniform Embedded Liquid Metal in Sulfur Polymers for Recyclable, Conductive, and Self-Healable Materials. <b>2019</b> , 29, 1808989	104
527	Funktionelle polymere Materialien auf der Basis von Hauptgruppen-Elementen. <b>2019</b> , 131, 5904-5929	20
526	Recent advances in shuttle effect inhibition for lithium sulfur batteries. <b>2019</b> , 23, 707-732	123
525	Bifunctional NiCo <sub>2</sub> S <sub>4</sub> catalysts supported on a carbon textile interlayer for ultra-stable LiS battery. <b>2019</b> , 7, 7604-7613	60
524	Rational design of sulfur-containing composites for high-performance lithium-sulfur batteries. <b>2019</b> , 7, 020904	20
523	Sulfur fertilizer based on inverse vulcanization process with soybean oil. <b>2019</b> , 162, 102-105	37
522	A Sulfur Copolymers (SDIB)/Polybenzoxazines (PBz) Polymer Blend for Electrospinning of Nanofibers. <b>2019</b> , 9,	4
521	A double-site Lewis pair for highly active and living synthesis of sulfur-containing polymers. <b>2019</b> , 10, 6555-6560	7
520	A new cathode material synthesized by a thiol-modified metal-organic framework (MOF) covalently connecting sulfur for superior long-cycling stability in lithium-sulfur batteries. <b>2019</b> , 7, 24515-24523	29
519	l-Cysteine-Modified Acacia Gum as a Multifunctional Binder for Lithium-Sulfur Batteries. <b>2019</b> , 11, 47956-47962	7
518	Inverse Vulcanization Polymers with Enhanced Thermal Properties via Divinylbenzene Homopolymerization-Assisted Cross-Linking. <b>2019</b> , 8, 1670-1675	16
517	Macroporous sulfur polymers from a sodium chloride porogen: low cost, versatile remediation material. <b>2019</b> , 5, 2142-2149	10
516	Durable, acid-resistant copolymers from industrial by-product sulfur and microbially-produced tyrosine.. <b>2019</b> , 9, 31460-31465	24

515	Compatibility driven self-strengthening during the radical-responsive remolding process of poly-isoprene vitrimers. <b>2019</b> , 7, 25324-25332	14
514	Improving a Mg/S Battery with YCl Additive and Magnesium Polysulfide. <b>2019</b> , 6, 1800981	33
513	Recent progress in polymer materials for advanced lithium-sulfur batteries. <b>2019</b> , 90, 118-163	90
512	Treatment of real flue gas desulfurization wastewater in an autotrophic biocathode in view of elemental sulfur recovery: Microbial communities involved. <b>2019</b> , 657, 945-952	27
511	Mesopore Channel Length Control in Ordered Mesoporous Carbon Hosts for High Performance Lithium-Sulfur Batteries. <b>2019</b> , 166, A5244-A5251	6
510	A robust 2D organic polysulfane nanosheet with grafted polycyclic sulfur for highly reversible and durable lithium-organosulfur batteries. <b>2019</b> , 57, 635-643	42
509	Enabling High-Rate and Safe Lithium Ion-Sulfur Batteries by Effective Combination of Sulfur-Copolymer Cathode and Hard-Carbon Anode. <b>2019</b> , 12, 480-486	14
508	Rationally Designed High-Sulfur-Content Polymeric Cathode Material for Lithium-Sulfur Batteries. <b>2019</b> , 11, 6136-6142	39
507	MetalSulfur Batteries: Overview and Research Methods. <b>2019</b> , 4, 436-446	71
506	Enhanced Electrochemical Performance of LithiumSulfur Batteries with Surface Copolymerization of Cathode. <b>2019</b> , 166, A5349-A5353	11
505	Physical confinement and chemical adsorption of porous C/CNT micro/nano-spheres for CoS and Co9S8 as advanced lithium batteries anodes. <b>2019</b> , 299, 489-499	17
504	Synergistic Effect of Sulfur and Chalcogen Atoms on the Enhanced Refractive Indices of Polyimides in the Visible and Near-Infrared Regions. <b>2019</b> , 52, 827-834	19
503	Effects of 2,5-furanylene sulfides in polymer main chains on polymer physical properties. <b>2019</b> , 51, 413-422	
502	Nucleophilic Activation of Elemental Sulfur for Inverse Vulcanization and Dynamic Covalent Polymerizations. <b>2019</b> , 57, 7-12	34
501	Covalent bonding of sulfur nanoparticles to unzipped multiwalled carbon nanotubes for high-performance lithium-sulfur batteries. <b>2019</b> , 30, 024001	18
500	Cardanol Benzoxazines: A Versatile Monomer with Advancing Applications. <b>2019</b> , 220, 1800470	22
499	Polymers for high performance Li-S batteries: Material selection and structure design. <b>2019</b> , 89, 19-60	68
498	Grafting polymeric sulfur onto carbon nanotubes as highly-active cathode for lithiumSulfur batteries. <b>2020</b> , 42, 27-33	22



497	Enhanced gas barrier properties of graphene oxide/rubber composites with strong interfaces constructed by graphene oxide and sulfur. <b>2020</b> , 383, 123100	31
496	Inverse vulcanized sulfur-cycloalkene copolymers: Effect of ring size and unsaturation on thermal properties. <b>2020</b> , 259, 126887	7
495	Chalcogenide hybrid inorganic/organic polymer resins: Amine functional prepolymers from elemental sulfur. <b>2020</b> , 58, 35-41	5
494	P(VDF-HFP)-poly(sulfur-1,3-diisopropenylbenzene) functional polymer electrolyte for lithium-sulfur batteries. <b>2020</b> , 46, 114-122	23
493	The unrevealed potential of elemental sulfur for the synthesis of high sulfur content bio-based aliphatic polyesters. <b>2020</b> , 11, 241-248	10
492	Hyperbranched multiple polythioamides made from elemental sulfur for mercury adsorption. <b>2020</b> , 11, 810-819	12
491	Oxygen accelerated scalable synthesis of highly fluorescent sulfur quantum dots. <b>2019</b> , 11, 772-777	44
490	Covalent fixing of sulfur in metal-sulfur batteries. <b>2020</b> , 13, 432-471	64
489	Facile new approach to high sulfur-content materials and preparation of sulfur-ignin copolymers. <b>2020</b> , 8, 548-553	23
488	Phosphorus-sulfur/graphene composites as flexible lithium-sulfur battery cathodes with super high volumetric capacity. <b>2020</b> , 387, 123904	13
487	Renewable sulfur- and monoterpenes-derived polysulfides as functional crosslinker for epoxy thermosets. <b>2020</b> , 123, 109440	9
486	Chemoselective Coupling of CS <sub>2</sub> and Epoxides for Producing Poly(thioether)s and COS via Oxygen/Sulfur Atom Exchange. <b>2020</b> , 53, 233-239	10
485	Mechanistic understanding of the Sulfurized-Poly(acrylonitrile) cathode for lithium-sulfur batteries. <b>2020</b> , 26, 483-493	46
484	Holey graphene modified LiFePO <sub>4</sub> hollow microsphere as an efficient binary sulfur host for high-performance lithium-sulfur batteries. <b>2020</b> , 26, 433-442	36
483	Inverse vulcanization below the melting point of sulfur. <b>2020</b> , 4, 669-675	17
482	Sulfur covalently bonded to porous graphitic carbon as an anode material for lithium-ion capacitors with high energy storage performance. <b>2020</b> , 8, 62-68	21
481	Economic Sulfur Conversion to Functional Polythioamides through Catalyst-Free Multicomponent Polymerizations of Sulfur, Acids, and Amines. <b>2020</b> , 142, 978-986	52
480	Trapping of Polysulfides with Sulfur-Rich Poly Ionic Liquid Cathode Materials for Ultralong-Life Lithium-Sulfur Batteries. <b>2020</b> , 13, 715-723	12

479	Constructing mesoporous hollow polysulfane spheres bonded with short-chain sulfurs ( $S_x$ , $x \geq 3$ ) as high-performance sulfur cathodes in both ether and ester electrolytes. <b>2020</b> , 27, 426-434	19
478	Selenide-containing soluble polyimides: High refractive index and redox responsiveness. <b>2020</b> , 122, 109358	9
477	Suppressed Shuttle via Inhibiting the Formation of Long-Chain Lithium Polysulfides and Functional Separator for Greatly Improved Lithium Organosulfur Batteries Performance. <b>2020</b> , 10, 1902695	15
476	Electrochemical treatment of industrial sulfidic spent caustic streams for sulfide removal and caustic recovery. <b>2020</b> , 388, 121770	8
475	High sulfur-containing organosulfur polymer composite cathode embedded by monoclinic S for lithium sulfur batteries. <b>2020</b> , 26, 570-576	30
474	TiO <sub>2</sub> Nanosheet-Redox Graphene Oxide/Sulphur Cathode for High-Performance Lithium-Sulphur Batteries. <b>2020</b> , 20, 1715-1722	1
473	Copolymerization of a Bisphenol a Derivative and Elemental Sulfur by the RASP Process. <b>2020</b> , 1, 183-197	4
472	Supramolecular complex formation of polysulfide polymers and cyclodextrins. <b>2020</b> , 56, 13619-13622	4
471	Sequential crosslinking for mechanical property development in high sulfur content composites. <b>2020</b> , 58, 2943-2950	4
470	Highly dispersed MoP encapsulated in P-doped porous carbon boosts polysulfide redox kinetics of lithium-sulfur batteries. <b>2020</b> , 18, 100531	15
469	Facile route to an organosulfur composite from biomass-derived guaiacol and waste sulfur. <b>2020</b> , 8, 20318-20332	2
468	100th Anniversary of Macromolecular Science Viewpoint: Toward Catalytic Chemical Recycling of Waste (and Future) Plastics. <b>2020</b> , 9, 1494-1506	60
467	Density-Adjustable Bio-Based Polysulfide Composite Prepared by Inverse Vulcanization and Bio-Based Fillers. <b>2020</b> , 12,	4
466	Crosslinking diene rubbers by using an inverse vulcanised co-polymer. <b>2020</b> , 22, 7337-7342	5
465	An inverse vulcanized conductive polymer for LiS battery cathodes. <b>2020</b> , 8, 21711-21720	10
464	Sulfur copolymers (SDIB) from inverse vulcanization of elemental sulfur (S <sub>8</sub> ) for polymer blend. <b>2020</b> , 778, 012023	1
463	Recyclable, sustainable, and stronger than portland cement: a composite from unseparated biomass and fossil fuel waste. <b>2020</b> , 1, 590-594	14
462	The agronomic benefit of phosphate rock application with elemental sulfur depends on the reactivity and fertilizer placement. <b>2020</b> , 43, 2773-2784	

- 461 High strength, acid-resistant composites from canola, sunflower, or linseed oils: Influence of triglyceride unsaturation on material properties. **2020**, 58, 2259-2266 15
- 460 Isometric Thionated Naphthalene Diimides As Organic Cathodes for High Capacity Lithium Batteries. **2020**, 32, 10575-10583 8
- 459 Sulfur-based redox chemistry for electrochemical energy storage. **2020**, 422, 213445 11
- 458 Enhanced mid-wavelength infrared refractive index of organically modified chalcogenide (ORMOCHALC) polymer nanocomposites with thermomechanical stability. **2020**, 108, 110197 7
- 457 Copolymerized Sulfur with Intrinsically Ionic Conductivity, Superior Dispersibility, and Compatibility for All-Solid-State Lithium Batteries. **2020**, 8, 12100-12109 3
- 456 Mercury removal by porous sulfur copolymers: Adsorption isotherm and kinetics studies. **2020**, 606, 125333 7
- 455 Highly Stable Membranes of Poly(phenylene sulfide benzimidazole) Cross-Linked with Polyhedral Oligomeric Silsesquioxanes for High-Temperature Proton Transport. **2020**, 3, 7873-7884 10
- 454 Tailoring Polysulfide Properties through Variations of Inverse Vulcanization. **2020**, 53, 9353-9361 14
- 453 Algae-Inspired, Sulfur-Based Polymer with Infrared Transmission and Elastic Function. **2020**, 2, 5173-5178 9
- 452 Confining a spent lead sorbent in a polymer made by inverse vulcanization prevents leaching. **2020**, 26, e00222 5
- 451 Inverse Vulcanization of Styrylethyltrimethoxysilane-Coated Surfaces, Particles, and Crosslinked Materials. **2020**, 132, 18798-18804 2
- 450 Supramolecular medical antibacterial tissue adhesive prepared based on natural small molecules. **2020**, 8, 6235-6245 9
- 449 Nanostructured Sulfur and Sulfides for Advanced Lithium/Sulfur Cells. **2020**, 7, 3927-3942 4
- 448 Use of Bis(2,2,6,6-tetramethylpiperidin-1-yl)trisulfide as a Dynamic Covalent Bond for Thermally Healable Cross-Linked Polymer Networks. **2020**, 2, 4054-4061 7
- 447 Luminescent Sulfur Quantum Dots: Synthesis, Properties and Potential Applications. **2020**, 4, 5235-5244 19
- 446 Green Synthesis of Thermoplastic Composites from a Terpenoid-Cellulose Ester. **2020**, 2, 3761-3765 11
- 445 Scalable High Refractive Index polystyrene-sulfur nanocomposites via in situ inverse vulcanization. **2020**, 10, 14924 3
- 444 Preparation and characterization of green polymer by copolymerization of corn oil and sulphur at molten state. **2020**, 096739112095953 5

443	Sulfur Copolymerization with Hydrophilic Comonomers as Polysulfides in Microbeads for Highly Efficient Hg <sup>2+</sup> Removal from Wastewater. <b>2020</b> , 2, 4677-4689	8
442	A role for terpenoid cyclization in the atom economical polymerization of terpenoids with sulfur to yield durable composites. <b>2020</b> , 1, 1665-1674	10
441	Evaluation of properties of sulfur-based polymers obtained by inverse vulcanization: Techniques and challenges. <b>2020</b> , 096739112095407	6
440	Highly-rough surface carbon nanofibers film as an effective interlayer for lithium-sulfur batteries. <b>2020</b> , 41, 092701	4
439	Design and Preparation of Polysulfide Flexible Polymers Based on Cottonseed Oil and Its Derivatives. <b>2020</b> , 12,	1
438	State-of-the-Art Applications of 2D Nanomaterials in Energy Storage. <b>2020</b> , 253-293	3
437	An overview of the characteristics of advanced binders for high-performance LiS batteries. <b>2020</b> ,	4
436	Kinetic Enhancement of Sulfur Cathodes by N-Doped Porous Graphitic Carbon with Bound VN Nanocrystals. <b>2020</b> , 16, e2004950	29
435	Sulfur-Containing Polymers Prepared from Fatty Acid-Derived Monomers: Application of Atom-Economical Thiol-ene/Thiol-yne Click Reactions and Inverse Vulcanization Strategies. <b>2020</b> , 1, 209-237	7
434	Synergistic Effect of Salinized Quinone for Entrapment of Polysulfides for High-Performance Li-S Batteries. <b>2020</b> , 12, 23867-23873	7
433	Reactive Compression Molding Post-Inverse Vulcanization: A Method to Assemble, Recycle, and Repurpose Sulfur Polymers and Composites. <b>2020</b> , 26, 10035-10044	29
432	Inverse Vulcanized Polymers with Shape Memory, Enhanced Mechanical Properties, and Vitriimer Behavior. <b>2020</b> , 59, 13371-13378	31
431	Facile Synthesis of Well-Defined Branched Sulfur-Containing Copolymers: One-Pot Copolymerization of Carbonyl Sulfide and Epoxide. <b>2020</b> , 59, 13633-13637	8
430	Toward Practical All-solid-state Batteries with Sulfide Electrolyte: A Review. <b>2020</b> , 36, 377-385	11
429	High performance potassium-sulfur batteries and their reaction mechanism. <b>2020</b> , 8, 10875-10884	25
428	Intramolecularly Cooperative Catalysis for Copolymerization of Cyclic Thioanhydrides and Epoxides: A Dual Activation Strategy to Well-Defined Polythioesters. <b>2020</b> , 10, 6635-6644	17
427	Advanced Thermosets from Sulfur and Renewable Benzoxazine and Ionones via Inverse Vulcanization. <b>2020</b> , 8, 9145-9155	20
426	Inverse Vulcanized Polymers with Shape Memory, Enhanced Mechanical Properties, and Vitriimer Behavior. <b>2020</b> , 132, 13473-13480	2

425	Serial Disulfide Polymers as Cathode Materials in Lithium-Sulfur Battery: Materials Optimization and Electrochemical Characterization. <b>2020</b> , 10, 2538	1
424	Chemically induced repair, adhesion, and recycling of polymers made by inverse vulcanization. <b>2020</b> , 11, 5537-5546	37
423	Recent Progress in High Donor Electrolytes for Lithium-Sulfur Batteries. <b>2020</b> , 10, 2001456	51
422	Making the Best of Polymers with Sulfur-Nitrogen Bonds: From Sources to Innovative Materials. <b>2020</b> , 41, e2000181	7
421	12 years roadmap of the sulfur cathode for lithium sulfur batteries (2009-2020). <b>2020</b> , 30, 346-366	98
420	Rapidly self-healing, magnetically controllable, stretchable, smart, moldable nanoparticle composite gel. <b>2020</b> , 44, 10586-10591	3
419	Facile Synthesis of Well-Defined Branched Sulfur-Containing Copolymers: One-Pot Copolymerization of Carbonyl Sulfide and Epoxide. <b>2020</b> , 132, 13735-13739	2
418	Conducting Redox Polymer as Organic Anode Material for Polymer-Manganese Secondary Batteries. <b>2020</b> , 7, 3336-3340	6
417	Phosphazene based star-branched polymeric cathode materials via inverse vulcanization of sulfur for lithium-sulfur batteries. <b>2020</b> , 11, 4124-4132	8
416	Synthesis of Sulfur-rich Organic Materials with Elemental Sulfur Aiming for the Application in Lithium-sulfur Batteries. <b>2020</b> , 78, 627-629	1
415	Lithiation of Sulfur-Graphene Compounds Using Reactive Force-Field Molecular Dynamics Simulations. <b>2020</b> , 167, 100555	5
414	Biogas upgrading methods: recent advancements and emerging technologies. <b>2020</b> , 19, 651-671	14
413	Strategies toward High-Loading Lithium-Sulfur Battery. <b>2020</b> , 10, 2000082	140
412	Redox polymers for rechargeable metal-ion batteries. <b>2020</b> , 2, 100030	69
411	Electrode Design for Lithium-Sulfur Batteries: Problems and Solutions. <b>2020</b> , 30, 1910375	109
410	Coordination complexes of methimazole with copper: Controlling redox reactions and sulfur extrusion. <b>2020</b> , 507, 119568	1
409	Opportunities and Challenges for Organic Electrodes in Electrochemical Energy Storage. <b>2020</b> , 120, 6490-6557	232
408	Non-Isocyanate and Catalyst-Free Synthesis of a Recyclable Polythiourethane with Cyclic Structure. <b>2020</b> , 8, 5693-5703	14

407	High Refractive Index Inverse Vulcanized Polymers for Organic Photonic Crystals. <b>2020</b> , 10, 154	6
406	Investigating the Antibacterial Properties of Inverse Vulcanized Sulfur Polymers. <b>2020</b> , 5, 5229-5234	21
405	Potassium-sulfur batteries: Status and perspectives. <b>2020</b> , 2, e12038	16
404	Synthesis of Thiazoles and Isothiazoles via Three-Component Reaction of Enaminoesters, Sulfur, and Bromodifluoroacetamides/Esters. <b>2020</b> , 22, 5284-5288	25
403	Large $\pi$ -Conjugated Condensed Perylene-Based Aromatic Polyimide as Organic Cathode for Lithium-Ion Batteries. <b>2020</b> , 3, 6511-6524	7
402	Grafting polymer from oxygen-vacancy-rich nanoparticles to enable protective layers for stable lithium metal anode. <b>2020</b> , 76, 105046	18
401	Polypropylene/Elemental Sulfur (S <sub>8</sub> ) Composites: Effect of Sulfur on Morphological, Thermal, and Mechanical Properties. <b>2020</b> , 59, 13079-13087	4
400	Dual-Functional Multichannel Carbon Framework Embedded with CoS Nanoparticles: Promoting the Phase Transformation for High-Loading Li-S Batteries. <b>2020</b> , 12, 32726-32735	19
399	Conductive Sulfur-Rich Copolymer Composites as Lithium/Sulfur Battery Electrodes with Fast Kinetics and a High Cycle Stability. <b>2020</b> , 8, 10389-10401	14
398	One-step vapor-phase synthesis of transparent high refractive index sulfur-containing polymers. <b>2020</b> , 6, eabb5320	30
397	Lithium-Sulfur Batteries: Advances and Trends. <b>2020</b> , 1, 226-259	12
396	Inverse Vulcanization of Styrylethyltrimethoxysilane-Coated Surfaces, Particles, and Crosslinked Materials. <b>2020</b> , 59, 18639-18645	12
395	Structure-related electrochemical performance of organosulfur compounds for lithium/Sulfur batteries. <b>2020</b> , 13, 1076-1095	69
394	Cathode materials for lithium/Sulfur batteries based on sulfur covalently bound to a polymeric backbone. <b>2020</b> , 8, 5379-5394	19
393	A Novel Sulfur-Based Terpolymer Cathode Material for Lithium/Sulfur Battery. <b>2020</b> , 8, 2000057	2
392	Towards high-performance solid-state Li-S batteries: from fundamental understanding to engineering design. <b>2020</b> , 49, 2140-2195	175
391	Copolymers by Inverse Vulcanization of Sulfur with Pure or Technical-Grade Unsaturated Fatty Acids. <b>2020</b> , 58, 438-445	21
390	Copper-Ion-Assisted Precipitation Etching Method for the Luminescent Enhanced Assembling of Sulfur Quantum Dots. <b>2020</b> , 5, 5407-5411	12

389	Mercury Sorbents Made By Inverse Vulcanization of Sustainable Triglycerides: The Plant Oil Structure Influences the Rate of Mercury Removal from Water. <b>2020</b> , 4, 1900111	37
388	Graphene-Modified Mesoporous Iron Phosphate as Superior Binary Sulfur Host for Lithium Sulfur Batteries. <b>2020</b> , 8, 1901462	3
387	Polymeric Sulfur as a Li Ion Conductor. <b>2020</b> , 20, 2191-2196	7
386	Sulfur/Carbon Nano Fiber Composite Solid Electrolyte for All-Solid-State LiS Batteries. <b>2020</b> , 3, 1569-1573	14
385	Valorization of Lignin as a Sustainable Component of Structural Materials and Composites: Advances from 2011 to 2019. <b>2020</b> , 12, 734	31
384	Innovative Polymers for Next-Generation Batteries. <b>2020</b> , 221, 1900490	15
383	Sulfur Based Polymers by Inverse Vulcanization: a Novel Path to Foster Green Chemistry. <b>2020</b> , 1-8	7
382	Synthesis of sulfur-co-polymer/porous long carbon nanotubes composite cathode by chemical and physical binding for high performance lithium-sulfur batteries. <b>2020</b> , 195, 117034	17
381	Understanding the Inhibition of the Shuttle Effect of Sulfides (S <sub>2</sub> ) in Lithium Sulfur Batteries by Heteroatom-Doped Graphene: First-Principles Study. <b>2020</b> , 124, 3644-3649	10
380	Revisiting the anchoring behavior in lithium-sulfur batteries: many-body effect on the suppression of shuttle effect. <b>2020</b> , 6,	18
379	An acid-assisted vacuum filtration approach towards flexible PDI/SWCNT cathodes for highly stable organic lithium ion batteries. <b>2020</b> , 338, 135771	7
378	Copolymerization of an aryl halide and elemental sulfur as a route to high sulfur content materials. <b>2020</b> , 11, 1621-1628	17
377	A Highly Crosslinked and Conductive Sulfur-Rich Copolymer with Grafted Polyaniline for Stable Cycling Lithium Sulfur Batteries. <b>2020</b> , 167, 020530	9
376	Preparation and Modification of Biomass-Based Functional Rubbers for Removing Mercury(II) from Aqueous Solution. <b>2020</b> , 13,	10
375	Covalent Triazine Frameworks Incorporating Charged Polypyrrole Channels for High-Performance Lithium Sulfur Batteries. <b>2020</b> , 32, 4185-4193	29
374	C(sp <sup>3</sup> ) <sub>n</sub> Polyamination of Internal Alkynes toward Regio- and Stereoregular Functional Poly(allylic tertiary amine)s. <b>2020</b> , 53, 3358-3369	5
373	Extended $\pi$ -conjugated N-containing heteroaromatic hexacarboxylate organic anode for high performance rechargeable batteries. <b>2020</b> , 51, 303-311	10
372	Design of High Efficient Mid-Wavelength Infrared Polarizer on ORMOCALC Polymer. <b>2020</b> , 305, 2000033	6

371	Bio-methanol as a renewable fuel from waste biomass: Current trends and future perspective. <b>2020</b> , 273, 117783	37
370	Designing a PAI/PTFE coating with enhanced high-temperature tribological properties by S8-POSS: Solid-liquid dual lubrication. <b>2020</b> , 145, 105667	4
369	Chain structure-dependent electrochemical performance of polyimide cathode materials for lithium-ion batteries. <b>2021</b> , 56, 3900-3910	7
368	Insight into the reaction mechanism of sulfur chains adjustable polymer cathode for high-loading lithium-organosulfur batteries. <b>2021</b> , 56, 238-244	11
367	Synergistic effect of sulfur-rich copolymer/S8 and carbon host porosity in Li-S batteries. <b>2021</b> , 365, 137088	4
366	Multicomponent Reactions in Polymer Chemistry Utilizing Heavier Main Group Elements. <b>2021</b> , 42, e2000495	9
365	Review on organosulfur materials for rechargeable lithium batteries. <b>2021</b> , 8, 471-500	30
364	Randomly Distributed Sulfur Atoms in the Main Chains of CO <sub>2</sub> -Based Polycarbonates: Enhanced Optical Properties. <b>2021</b> , 133, 4361-4367	3
363	Randomly Distributed Sulfur Atoms in the Main Chains of CO <sub>2</sub> -Based Polycarbonates: Enhanced Optical Properties. <b>2021</b> , 60, 4315-4321	8
362	Overview of recent developments of resource recovery from wastewater via electrochemistry-based technologies. <b>2021</b> , 757, 143901	21
361	Silsesquioxane-cored mikroarm copolymer amphiphiles for fabrication of oxidation-responsive silica-encapsulated polysulfide microspheres. <b>2021</b> , 143, 110196	1
360	Preparation and characterization of sulfur-vinylbenzyl chloride polymer under optimized reaction conditions using inverse vulcanization. <b>2021</b> , 143, 110202	6
359	Phenolic compounds to amplify the effect of sulfur on Bitumen's thermomechanical properties. <b>2021</b> , 287, 119532	4
358	Cationic polymer-grafted graphene oxide/CNT cathode-coating material for lithium-sulfur batteries.. <b>2021</b> , 11, 25305-25313	2
357	The link to polysulfides and their applications. <b>2021</b> , 57, 3190-3202	5
356	Synthesis of sulfur-doped porous carbon from heavy coker gas oil and its application in CO <sub>2</sub> capture. <b>2021</b> , 2, 248-252	0
355	Covalent Organic Frameworks as Electrode Materials for Rechargeable Batteries. <b>2021</b> , 03, 067-089	2
354	State-Of-The-Art and Future Challenges in High Energy Lithium-Selenium Batteries. <b>2021</b> , 33, e2003845	24



- 353 Removal of Oil from Oil-in-Water Emulsion by Poly (Sulfur/Soya Bean Oil) Composite Adsorbent: An Equilibrium Study. **2021**, 29, 2385
- 352 Concomitant induction to few-layer and 1T-rich two-dimensional MoS by rigid segment-containing polysulfide as a sulfur source and in situ intercalator. **2021**, 57, 2277-2280 3
- 351 High-capacity sulfur copolymer cathode with metallic fibril-based current collector and conductive capping layer. **2021**, 9, 2334-2344 2
- 350 Inverse vulcanization of octenyl succinate-modified corn starch as a route to biopolymer-sulfur composites. **2021**, 2, 2391-2397 7
- 349 Carbonisation of a polymer made from sulfur and canola oil. **2021**, 57, 6296-6299 2
- 348 Mechanistic implications of Li-S cell function through modification of organo-sulfur cathode architectures. **2021**, 23, 14075-14092 3
- 347 Oligomerized imide and thioimide organic cathode materials via a H-transfer mechanism for high capacity lithium ion batteries. **2021**, 9, 18306-18312 2
- 346 Conversion of palm oil to new sulfur-based polymer by inverse vulcanization. **2021**, 287, 02014 3
- 345 Recent developments in materials design for all-solid-state LiS batteries. 1-26 3
- 344 The Fluoride Anion-Catalyzed Sulfurization of Thioketones with Elemental Sulfur Leading to Sulfur-Rich Heterocycles: First Sulfurization of Thiochalcones. **2021**, 26, 1
- 343 Synthesis and Characterization of Sustainable Inverse Vulcanized Copolymers from Non-Edible Oil. **2021**, 6, 1180-1190 6
- 342 A new insight into capacity fading of sulfurized polyacrylonitrile composite in carbonate electrolyte. **2021**, 882, 114964 2
- 341 Manipulating metal-sulfur interactions for achieving high-performance S cathodes for room temperature Li/Na-sulfur batteries. **2021**, 3, 253-270 7
- 340 Synergy of Phosphate-Controlled Release and Sulfur Oxidation in Novel Polysulfide Composites for Sustainable Fertilization. **2021**, 69, 2392-2402 3
- 339 Room-Temperature Sodium-Sulfur Batteries and Beyond: Realizing Practical High Energy Systems through Anode, Cathode, and Electrolyte Engineering. **2021**, 11, 2003493 50
- 338 The Application of Polymer Nanocomposites in Energy Storage Devices. **2021**, 157-187 1
- 337 Sulfur Conversion to Multifunctional Poly-(thiocarbamate)s through Multicomponent Polymerizations of Sulfur, Diols, and Diisocyanides. **2021**, 143, 3944-3950 15
- 336 Insulating Composites Made from Sulfur, Canola Oil, and Wool\*. **2021**, 14, 2352-2359 6

335	Investigating the Role and Scope of Catalysts in Inverse Vulcanization. <b>2021</b> , 11, 4441-4455	10
334	Thiol-Based Click Polymerizations for Sulfur-Containing Polymers. <b>2021</b> , 147-170	0
333	Carbon Disulfide Derived Polymers. <b>2021</b> , 39-79	1
332	New Insights into the N-S Bond Formation of a Sulfurized-Polyacrylonitrile Cathode Material for Lithium-Sulfur Batteries. <b>2021</b> , 13, 14230-14238	11
331	Synthesis of Sulfur-Containing Polymers Through Multicomponent Polymerizations. <b>2021</b> , 1-37	
330	Synthesis of Polythioesters. <b>2021</b> , 171-190	
329	Reduction-Responsive Disulfide-Containing Polymers for Biomedical Applications. <b>2021</b> , 393-428	
328	S-Carboxyanhydrides: Ultrafast and Selective Ring-Opening Polymerizations Towards Well-defined Functionalized Polythioesters. <b>2021</b> , 133, 10893-10900	5
327	S-Carboxyanhydrides: Ultrafast and Selective Ring-Opening Polymerizations Towards Well-defined Functionalized Polythioesters. <b>2021</b> , 60, 10798-10805	11
326	Modification of high-sulfur polymer using a mixture porogen and its application as advanced adsorbents for Au(III) from wastewater. <b>2021</b> , 328, 115437	7
325	Sulfur crosslinked poly(m-aminothiophenol)/potato starch on mesoporous silica for efficient Hg(II) removal and reutilization of waste adsorbent as a catalyst. <b>2021</b> , 328, 115420	12
324	Sulfur-based oxidation-responsive polymers. Chemistry, (chemically selective) responsiveness and biomedical applications. <b>2021</b> , 149, 110387	8
323	Polymers Made by Inverse Vulcanization for Use as Mercury Sorbents. <b>2021</b> , 03, 362-373	10
322	Organic polysulfanes grafted on porous graphene as an electrode for high-performance lithium organosulfur batteries. <b>2021</b> , 491, 229617	12
321	Using conjugated system from natural sources for the synthesis of sulfur copolymers by bi-function catalysts at mild temperatures. <b>2021</b> , 138, 50925	1
320	Mercury capture with an inverse vulcanized polymer formed from garlic oil, a bioderived comonomer. <b>2021</b> , 161, 104865	4
319	Supramolecular Self-Assembled Multi-Electron-Acceptor Organic Molecule as High-Performance Cathode Material for Li-Ion Batteries. <b>2021</b> , 11, 2100330	7
318	Sulfophobic and Vacancy Design Enables Self-Cleaning Electrodes for Efficient Desulfurization and Concurrent Hydrogen Evolution with Low Energy Consumption. <b>2021</b> , 31, 2101922	10

317	3D-structured organic-inorganic hybrid solid-electrolyte-interface layers for Lithium metal anode. <b>2021</b> , 37, 567-575	7
316	Electrosynthesis of 1,4-bis(diphenylphosphanyl) tetrasulfide via sulfur radical addition as cathode material for rechargeable lithium battery. <b>2021</b> , 12, 3220	9
315	Rational cooperativity of nanospace confinement and rapid catalysis via hollow carbon nanospheres@Nb-based inorganics for high-rate Li-S batteries. <b>2021</b> , 411, 128504	15
314	Zooming in on Polymer Chemistry and Designing Synthesis of High Sulfur-Content Polymers for Virtual Undergraduate Laboratory Experiment. <b>2021</b> , 98, 2062-2073	6
313	Repurposing Waste Tires as Tunable Frameworks for Use in Sodium-Ion and Lithium-Sulfur Batteries. <b>2021</b> , 9, 6972-6990	1
312	A Fast Autonomous Healing Magnetic Elastomer for Instantly Recoverable, Modularly Programmable, and Thermorecyclable Soft Robots. <b>2021</b> , 31, 2101825	16
311	Sandwiched Cathodes Assembled from CoS -Modified Carbon Clothes for High-Performance Lithium-Sulfur Batteries. <b>2021</b> , 8, e2101019	15
310	Advances in Lithium-Sulfur Batteries: From Academic Research to Commercial Viability. <b>2021</b> , 33, e2003666	77
309	Bifunctional polyvinylpyrrolidone generates sulfur-rich copolymer and acts as residence of polysulfide for advanced lithium-sulfur battery. <b>2021</b> , 414, 128799	12
308	Recent Advances in Sulfidated Zerovalent Iron for Contaminant Transformation. <b>2021</b> , 55, 8464-8483	12
307	Boosting electrochemical kinetics of S cathodes for room temperature Na/S batteries. <b>2021</b> , 4, 1768-1800	18
306	Catalyzing the Ring-Opening Polymerization of 1,3-Benzoxazines via Thioamide from Renewable Sources. <b>2021</b> , 3, 4203-4212	1
305	Ionic-additive Crosslinked Polymeric Sulfur Composites as Cathode Materials for Lithium-Sulfur Batteries.	1
304	Effects of nanopores and sulfur doping on hierarchically bunched carbon fibers to protect lithium metal anode. <b>2021</b> , 3, 784	2
303	Hyperbranched organosulfur polymer cathode materials for Li-S battery. <b>2021</b> , 415, 129043	11
302	Pyrolysed coffee grounds as a conductive host agent for sulfur composite electrodes in LiS batteries. <b>2021</b> , 4, 100053	2
301	SnS <sub>2</sub> monolayer and SnS <sub>2</sub> /graphene heterostructure as promising anchoring materials for lithium-sulfur batteries: A computational study. <b>2021</b> , 548, 111220	6
300	Effects of Photochemical Oxidation of the Carbonaceous Additives on Li-S Cell Performance. <b>2021</b> , 13, 41517-41523	1

299	Tunable mid-wavelength infrared (MWIR) polarizer by ORMOCALC composite with improved thermomechanical stability. <b>2021</b> ,	0
298	Multiscale Understanding of Covalently Fixed Sulfur-Polyacrylonitrile Composite as Advanced Cathode for Metal-Sulfur Batteries. <b>2021</b> , 8, e2101123	9
297	Tuning the Linkers in Polymer-Based Cathodes to Realize High Sulfur Content and High-Performance Potassium Sulfur Batteries. <b>2021</b> , 125, 18604-18613	3
296	Reusable Polyacrylonitrile-Sulfur Extractor of Heavy Metal Ions from Wastewater. 2105845	5
295	The polymer nanocomposites embedded particles size and agglomeration effect on the effective refractive index tuning. <b>2021</b> ,	
294	Halogen-Free Polyphosphazene-Based Flame Retardant Cathode Materials for Li-S Batteries. 2100563	3
293	Influence of Component Ratio on Thermal and Mechanical Properties of Terpenoid-Sulfur Composites. <b>2021</b> , 5, 257	1
292	Segmented Polyurethanes and Thermoplastic Elastomers from Elemental Sulfur with Enhanced Thermomechanical Properties and Flame Retardancy. <b>2021</b> , 133, 23082	2
291	On the structure of sulfur/1,3-diisopropenylbenzene co-polymer cathodes for Li-S batteries: insights from density-functional theory calculations. <b>2021</b> ,	1
290	Segmented Polyurethanes and Thermoplastic Elastomers from Elemental Sulfur with Enhanced Thermomechanical Properties and Flame Retardancy. <b>2021</b> , 60, 22900-22907	9
289	Electrical Applications. <b>2021</b> , 137-195	
288	Sulfur-Rich Polymers Based Cathode with Epoxy/Ally Dual-Sulfur-Fixing Mechanism for High Stability Lithium-Sulfur Battery. <b>2021</b> , 15, 15027-15038	11
287	Cobalt(II)-Centered Fluorinated Phthalocyanine-Sulfur SNAr Chemistry for Robust Lithium Sulfur Batteries with Superior Conversion Kinetics. 2106679	4
286	The use of inverse vulcanised polysulfide as an intelligent interfacial modifier in rubber/carbon black composites. <b>2021</b> , 184, 409-417	5
285	Revealing sulfate role in empowering the sulfur-oxidizing capacity of Thioalkalivibrio versutus D301 for an enhanced desulfurization process. <b>2021</b> , 337, 125367	3
284	Novel computational design of high refractive index nanocomposites and effective refractive index tuning based on nanoparticle morphology effect. <b>2021</b> , 223, 109128	0
283	Chemical solidification/stabilization of arsenic sulfide and oxide mixed wastes using elemental sulfur: Efficiencies, mechanisms and long-term stabilization enhancement by dicyclopentadiene. <b>2021</b> , 419, 126390	1
282	Functional polymers for lithium metal batteries. <b>2021</b> , 122, 101453	8

281	Thirty-minute synthesis of hierarchically ordered sulfur particles enables high-energy, flexible lithium-sulfur batteries. <b>2021</b> , 89, 106459	5
280	Fluorinated quinone derived organosulfur copolymer cathodes for long-cycling, thermostable and flexible lithium-sulfur batteries. <b>2021</b> , 424, 130316	7
279	Entrapping polysulfides via S, N-coordinated supermolecule towards enhanced Li-S kinetics. <b>2021</b> , 426, 131355	2
278	Magnetic sulfur-doped carbons for mercury adsorption. <b>2021</b> , 603, 728-737	3
277	Rational design of an Allyl-rich Triazine-based covalent organic framework host used as efficient cathode materials for Li-S batteries. <b>2022</b> , 429, 132254	8
276	Effect on thermal stability of microstructure and morphology of thermally-modified electrospun fibers of polybenzoxazines (PBz) blended with sulfur copolymers (SDIB).. <b>2021</b> , 11, 10002-10009	
275	The Application of Functional Polymers in Cathode of High-Performance Lithium Sulfur Batteries. <b>2021</b> , 11, 258-277	
274	Elemental sulphur in the synthesis of sulphur-containing polymers: reaction mechanisms and green prospects.. <b>2021</b> , 11, 9008-9020	6
273	Mesoporous knitted inverse vulcanised polymers. <b>2021</b> , 57, 5059-5062	3
272	Research Progress of Organic Sulfur Polymer Cathode Materials for Lithium-Sulfur Batteries. <b>2021</b> , 10, 41-50	
271	Influence of polymers on carbon-based composites in energy storage applications. <b>2021</b> , 249-264	
270	Towards practical cells: combined use of titanium black as a cathode additive and sparingly solvating electrolyte for high-energy-density lithium-sulfur batteries. <b>2021</b> , 5, 1821-1831	3
269	Cu-nanoparticle-decorated sulfur-based polymers for highly sensitive nonenzymatic glucose detection. <b>2021</b> , 45, 16205-16212	
268	Sulfur-stabilised copper nanoparticles for the aerobic oxidation of amines to imines under ambient conditions. <b>2021</b> , 9, 11312-11322	6
267	Morphological and mechanical characterization of high-strength sulfur composites prepared with variably-sized lignocellulose particles.	1
266	Strategy of Enhancing the Volumetric Energy Density for Lithium-Sulfur Batteries. <b>2021</b> , 33, e2003955	66
265	Spatiotemporally Controlled Plasticity and Elasticity in 3D Multi-Shape Memory Structures Enabled by Elemental Sulfur-Derived Polysulfide Networks with Intrinsic NIR Responsiveness. <b>2020</b> , 41, e2000013	9
264	Halogen-free flame-retardant sulfur copolymers with stable LiS battery performance. <b>2020</b> , 29, 350-360	23

- 263 Alternating copolymerization of  $\beta$ -selenobutyrolactone with episulfides for high refractive index selenium-containing polythioesters. **2020**, 133, 109776 7
- 262 Surface Redox-Active Organosulfur-Tethered Carbon Nanotubes for High Power and Long Cyclability of Na<sup>+</sup>Organosulfur Hybrid Energy Storage. **2021**, 6, 280-289 11
- 261 100th Anniversary of Macromolecular Science Viewpoint: High Refractive Index Polymers from Elemental Sulfur for Infrared Thermal Imaging and Optics. **2020**, 9, 245-259 38
- 260 Chapter 4:Radical Polymers for Rechargeable Batteries. **2020**, 137-165 1
- 259 Supercooled liquid sulfur maintained in three-dimensional current collector for high-performance Li-S batteries. **2020**, 6, eaay5098 52
- 258 Nonlinear optical properties of chalcogenide hybrid inorganic/organic polymers (CHIPs) using the Z-scan technique. **2018**, 8, 2510 7
- 257 The synthesis of degradable sulfur-containing polymers: precise control of structure and stereochemistry. 5
- 256 Polysulfide induced synthesis of Mo doped NiS<sub>x</sub> based on solid nanoplate arrays for efficient oxygen evolution catalysis. **2021**, 11, 7445-7453 1
- 255 TiS<sub>2</sub>-Graphene Heterostructures Enabling Polysulfide Anchoring and Fast Electrocatalyst for Lithium-Sulfur Batteries: A First-principles Calculation.
- 254 The versatile, functional polyether, polyepichlorohydrin: History, synthesis, and applications. **2021**, 59, 2704 0
- 253 Synthesis and applications of inverse vulcanized polysulfides from bio-crosslinkers. **2021**, 2
- 252 Nonlinear Refractive Index of Sulfur Copolymer Materials. **2017**,
- 251 Preparation of Composite Adsorbents from Bentonite/Sulfurized Waste Oil. **2018**, 06, 119-126
- 250 Fabrication of high refractive index, infrared transmitting Organically Modified Chalcogenide (ORMOCHALC) polymers (Rising Researcher Presentation). **2019**,
- 249 New insights into the mechanism of sulfur vulcanisation: a theoretical study. **2020**, 67-72
- 248 Rational Design of the Lotus-Like N-Co VO<sub>2</sub>-Co Heterostructures with Well-Defined Interfaces in Suppressing the Shuttle Effect and Dendrite Growth in Lithium-Sulfur Batteries. **2021**, e2104109 0
- 247 Revisiting the role of polymers as renewable and flexible materials for advanced batteries. **2021**, 45, 1012-1012 2
- 246 Solid Waste Materials for Energy Storage Applications. **2022**, 470-482

245	Accelerated reduction and solubilization of elemental sulfur by 1,2-aminothiols. <b>2021</b> , 57, 12488-12491		1
244	Benzothiazole-Linked Metal-Free Covalent Organic Framework Nanostructures for Visible-Light-Driven Photocatalytic Conversion of Phenylboronic Acids to Phenols.		3
243	Redox-active polymers: The magic key towards energy storage & polymer design guideline progress in polymer science. <b>2021</b> , 125, 101474		6
242	Structure-Related Electrochemical Behavior of Sulfur-Rich Polymer Cathode with Solid-Solid Conversion in Lithium-Sulfur Batteries. <b>2021</b> ,		2
241	Polymers in Lithium-Sulfur Batteries. <b>2021</b> , e2103798		10
240	Chalcogenide hybrid inorganic/organic polymer resins: Amine functional prepolymers from elemental sulfur. <b>2020</b> , 58, 35-41		
239	Toxic Gas-Free Synthesis of Extremely Negative Triboelectric Sulfur Copolymer Blends Via Phase Separation of Fluorine-Rich Polymers. <b>2022</b> , 92, 106761		4
238	One-pot, one-step, and selective terpolymerization of ethylene oxide, propylene oxide, and COS to copoly(thioether)s with tunable thermal properties.		1
237	Catalytic materials for lithium-sulfur batteries: mechanisms, design strategies and future perspective. <b>2021</b> ,		14
236	Chemically Activated S <sub>2</sub> S Metathesis for Adhesive-Free Bonding of Polysulfide Surfaces. 2100333		1
235	A Degradable Inverse Vulcanized Copolymer as a Coating Material for Urea Produced under Optimized Conditions. <b>2021</b> , 13,		4
234	Ultralow Adhesion and Phase Change Behaviors of Sulfur Droplets on the Superhydrophobic Surface and Its Application in the Granulation Process. <b>2021</b> , 37, 13985-13997		
233	Towards high-performance sustainable polymers via isomerization-driven irreversible ring-opening polymerization of five-membered thionolactones. <i>Nature Chemistry</i> , <b>2021</b> ,	17.6	11
232	Synthesis and Characterization of Limonene-Based Sulfur Polymer.		
231	Polymerization of Aniline Derivatives to Yield Poly[-(phenylamino)disulfides] as Polymeric Auxochromes. <b>2021</b> , 54, 10405-10414		0
230	Lithiated Sulfur-Incorporated, Polymeric Cathode for Durable Lithium-Sulfur Batteries with Promoted Redox Kinetics. <b>2021</b> ,		1
229	Antibacterial Activity of Inverse Vulcanized Polymers. <b>2021</b> ,		2
228	An in situ generated polymer electrolyte via anionic ring-opening polymerization for lithium-sulfur batteries. <b>2021</b> , 9, 25927-25933		0

227	Combined first-principles statistical mechanics approach to sulfur structure in organic cathode hosts for polymer based lithium-sulfur (Li-S) batteries. <b>2021</b> , 23, 26709-26720	1
226	Inverse Vulcanization of Elemental Sulfur with Natural Rosin to Prepare High Sulfur Content Polymers with Excellent Solubility and UV-Blocking Performance. 2100854	1
225	High strength composites from low-value animal coproducts and industrial waste sulfur.. <b>2022</b> , 12, 1535-1542	4
224	Progress and Perspectives of Organosulfur for LithiumSulfur Batteries. 2103483	8
223	Engineering Stable SEI Film on Mg-Doped Li Metal Anode by Electrolyte Additive With High Donor-Number Anion for Li-S Batteries.	
222	Sulfur-Containing Polymer Cathode Materials for LiS Batteries. <b>2022</b> , 295-330	0
221	High strength, epoxy cross-linked high sulfur content polymers from one-step reactive compatibilization inverse vulcanization.. <b>2022</b> , 13, 566-572	2
220	Covalently Grafting Sulfur-Containing Polymers to Carbon Nanotubes Enhances the Electrochemical Performance of Sulfur Cathodes. <b>2022</b> , 4, 939-949	2
219	Inverse Vulcanization of Norbornenylsilanes: Soluble Polymers with Controllable Molecular Properties via Siloxane Bonds.	
218	Designing principles of advanced sulfur cathodes toward practical lithium-sulfur batteries. e42	6
217	LiSulfur Battery. <b>2022</b> , 87-123	
216	Inverse Vulcanization of Norbornenylsilanes: Soluble Polymers with Controllable Molecular Properties via Siloxane Bonds.. <b>2022</b> ,	3
215	Processes for coating surfaces with a copolymer made from sulfur and dicyclopentadiene.	2
214	Utilizing Reclaimed Petroleum Waste to Synthesize Water-Soluble Polysulfides for Selective Heavy Metal Binding and Detection. <b>2022</b> , 4, 1110-1116	3
213	A bio-based, robust and recyclable thermoset polyester elastomer by using an inverse vulcanised polysulfide as a crosslinker. <b>2022</b> , 13, 485-491	0
212	Self-Healable and Recyclable Sulfur Rich Poly(vinyl chloride) by SB Dynamic Bonding. 2100423	3
211	Atomic Structure Modification of Fe-N-C Catalysts via Morphology Engineering of Graphene for Enhanced Conversion Kinetics of LithiumSulfur Batteries. 2110857	5
210	Stretchable and Durable Inverse Vulcanized Polymers with Chemical and Thermal Recycling. <b>2022</b> , 34, 1167-1178	5



209	Inverse Vulcanisation of canola oil as a route to recyclable chopped carbon fibre composites. <b>2022</b> , 32, e00400	0
208	Quantifying and Characterizing Sulfide Oxidation to Inform Operation of Electrochemical Sulfur Recovery from Wastewater.	0
207	Supramolecular Polysulfide Polymers with Metal-Ligand Interactions. <b>2022</b> , 7,	2
206	Enhance the anchoring and catalytic performance of lithium-sulfur batteries for lithium polysulfide by predicted TiS <sub>2</sub> monolayer. <b>2022</b> , 30, 103196	2
205	A flexible humidity sensor based on self-supported polymer film. <b>2022</b> , 358, 131438	3
204	Phenolic Compounds to Hinder Sulfur Crystallization in Sulfur-Extended Bitumen. <b>2022</b> , 180, 106184	2
203	Separator engineering toward practical Li-S batteries: Targeted electrocatalytic sulfur conversion, lithium plating regulation, and thermal tolerance. <b>2022</b> , 95, 106982	7
202	Environmental and health risks posed to children by artisanal gold mining: A systematic review.. <b>2022</b> , 10, 20503121221076934	
201	Controlled Disassembly of Elemental Sulfur: An Approach to the Precise Synthesis of Polydisulfides.	
200	Lithium-sulfur batteries as promising and challenging energy storage device for the future of electromobility.	0
199	Controlled Disassembly of Elemental Sulfur: An Approach to the Precise Synthesis of Polydisulfides.. <b>2022</b> ,	0
198	Organosulphur and organoselenium compounds as emerging building blocks for catalytic systems for -arylation of phenols, a C-O coupling reaction.. <b>2022</b> ,	3
197	2,5-Diisopropenylthiophene by Suzuki-Miyaura cross-coupling reaction and its exploitation in inverse vulcanization: a case study.. <b>2022</b> , 12, 8924-8935	1
196	Polymerization with the Cu(i)-catalyzed Doyle-Kirmse reaction of bis(allyl sulfides) and bis( $\alpha$ -diazooesters).	0
195	A gentamicin-thioctic acid multifunctional hydrogel for accelerating infected wound healing.. <b>2022</b> ,	1
194	Digital Light Processing of Dynamic Bottlebrush Materials. 2200883	3
193	Room-temperature metal-sulfur batteries: What can we learn from lithium-sulfur ?.	3
192	Bitumen Binders Modified with Sulfur/Organic Copolymers.. <b>2022</b> , 15,	1

191	Solid/Quasi-Solid Phase Conversion of Sulfur in Lithium-Sulfur Battery.. <b>2022</b> , e2106970	2
190	Importance of Mass Transport in High Energy Density Lithium-Sulfur Batteries Under Lean Electrolyte Conditions.	1
189	A separator modified with rutile titania and three-dimensional interconnected graphene-like carbon for advanced Li-S batteries.	1
188	A review on the use of carbonate-based electrolytes in Li-S batteries: A comprehensive approach enabling solid-solid direct conversion reaction. <b>2022</b> ,	2
187	Two-dimensional biphenylene: a promising anchoring material for lithium-sulfur batteries.. <b>2022</b> , 12, 4653	3
186	Synthesis and Characterization of Disiloxane Cross-Linked Polysulfides. <b>2022</b> , 55, 2280-2289	2
185	On the Fundamental Polymer Chemistry of Inverse Vulcanization for Statistical and Segmented Copolymers from Elemental Sulfur.. <b>2022</b> ,	
184	Obtaining elemental sulfur for Martian sulfur concrete. <b>2022</b> , 46, 174751982210807	0
183	Polymer Electrode Materials for Lithium-Ion Batteries. 2110871	3
182	Polysulfide synthesis using waste cooking palm oil via inverse vulcanization.	0
181	Dark Sulfur: Quantifying Unpolymerized Sulfur in Inverse Vulcanized Polymers.	2
180	Nucleophilic Ring-Opening of Thiolactones: A Facile Method for Sulfhydrylization of a Carbon Nanotube-Based Cathode toward High-Performance LiS Batteries.	2
179	Copolymerization of Sulfur Chains with Vinyl Functionalized MetalOrganic Framework for Accelerating Redox Kinetics in LithiumSulfur Batteries. 2104074	9
178	Combining vegetable oils and bioactive compounds via inverse vulcanization for antioxidant and antimicrobial materials. <b>2022</b> , 109, 107546	2
177	Sulfur-acetylacetone based solutions for precipitation of quasi-coreShell microparticles or hybrid structures. <b>2022</b> , 355, 118971	
176	Microbial transformations by sulfur bacteria can recover value from phosphogypsum: A global problem and a possible solution.. <b>2022</b> , 57, 107949	0
175	VC@NCNTs: Bidirectional catalyst for fast charging Lithium-sulfur batteries. <b>2022</b> , 442, 135940	1
174	Copolymerization of palm oil with sulfur using inverse vulcanization to boost the palm oil industry. <b>2021</b> , 29, S1446-S1456	0

173	Degradable Slow-Release Fertilizer Composite Prepared by Ex Situ Mixing of Inverse Vulcanized Copolymer with Urea. <b>2022</b> , 12, 65	3
172	Sulfurized Cyclopentadienyl Nanocomposites for Shuttle-Free Room-Temperature Sodium-Sulfur Batteries. <b>2021</b> ,	4
171	Anionic Polymerization of Ethyl 2-Cyanoacrylate Initiated by 1,3-Dimethylimidazolium (phosphonoxy-)oligosulfanide. <b>2021</b> , 29, 847-850	0
170	Transparent, Ultrahigh-Refractive Index Polymer Film ( $\sim 1.97$ ) with Minimal Birefringence ( $\square$ ) <b>2021</b> , 13, 61629-61637	3
169	Polymerizations with Elemental Sulfur: From Petroleum Refining to Polymeric Materials.. <b>2021</b> ,	12
168	Thermomorphological and mechanical properties of vulcanized octenyl succinate/terpenoid-derivatized corn starch composites.	2
167	Sulfur-Dipentene polysulfides: from industrial waste to sustainable, low-cost materials.	1
166	Direct ink writing of conductive materials for emerging energy storage systems. 1	3
165	Sulfur in Dynamic Covalent Chemistry.. <b>2022</b> ,	2
164	Cross-talks between Sulfane Sulfur and Thiol at a Zinc(II) Site.. <b>2022</b> ,	1
163	Graphene-Sulfur nanocomposites as cathode materials and separators for lithium-Sulfur batteries. <b>2022</b> , 289-314	1
162	Design of nanostructured sulfur cathodes for high-performance lithium-Sulfur batteries. <b>2022</b> , 425-452	
161	Polymeric nanocomposites for lithium-Sulfur batteries. <b>2022</b> , 389-424	
160	Advances in nanomaterials for sulfurized carbon cathodes. <b>2022</b> , 241-270	
159	Modelling mercury sorption of a polysulfide coating made from sulfur and limonene.. <b>2022</b> ,	3
158	Formulating energy density for designing practical lithium-Sulfur batteries. <b>2022</b> , 7, 312-319	31
157	Research Update of Emergent Sulfur Quantum Dots in Synthesis and Sensing/Bioimaging Applications.. <b>2022</b> , 27,	1
156	Sulfur in Dynamic Covalent Chemistry.	

155	Promising Chalcogenide Hybrid Copolymers for Sustainable Applications as Bio-lubricants and Metal Adsorbents. <b>2022</b> , 4, 3667-3675	1
154	Sulfur-containing polymer cathode materials: From energy storage mechanism to energy density.	2
153	Constructing Binder- and Carbon Additive-Free Organosulfur Cathodes Based on Conducting Thiol-Polymers through Electropolymerization for Lithium-Sulfur Batteries.. <b>2022</b> ,	0
152	Highly sulfur-rich polymeric cathode materials via inverse vulcanization of sulfur for lithium-sulfur batteries. <b>2022</b> , 285, 126168	0
151	Synthesis of sustainable poly(S-Abietic-co-Pinene) through inverse vulcanization of Kurdica gum and used to fabricate durable and recyclable super-hydrophobic cotton wool filter: Oil-water separation application. <b>2022</b> , 168, 106862	1
150	Synthesis of poly(thioester sulfonamide)s via the Ring-Opening Copolymerization of Cyclic Thioanhydride with N-Sulfonyl Aziridine Using Mild Phosphazene base.. <b>2022</b> , e2200140	3
149	Co-fertilization of Sulfur and Struvite-Phosphorus in a Slow-Release Fertilizer Improves Soybean Cultivation. <b>2022</b> , 13,	0
148	Pure hydrogen and sulfur production from H <sub>2</sub> S by electrochemical approach using NiCu-MoS <sub>2</sub> catalyst.	1
147	Exploiting the Reversible Covalent Bonding of Boronic Acids for Self-Healing/Recycling of Main-Chain Polybenzoxazines.	1
146	Preparation of Porous Yolk-Shell S@Poly(vinyl alcohol) (PVA) Particles for a Lithium-Sulfur Battery Cathode with High Cycling and Rate Performances via a Self-Emulsification Process.	1
145	Catalytic elemental sulfur-assisted methane activation at low temperature. <b>2022</b> , 315, 121518	0
144	High Refractive Index Chalcogenide Hybrid Inorganic/Organic Polymers for Integrated Photonics. 2200176	1
143	Novel Sulfur-Containing Polymeric Cathode Material Prepared via an Inverse Vulcanization Method for Advanced Lithium-Sulfur Batteries.	1
142	Improving Lithium-Sulfur Batteries' Performance via Inverse Vulcanization of Vinylene-Linked Covalent Organic Frameworks. <b>2022</b> , 36, 5998-6004	2
141	Quasi-solid-state conversion cathode materials for room-temperature sodium-sulfur batteries. 20220008	1
140	Mid-wave infrared planar optical device via femtosecond laser ablation on sulfur-based polymeric glass surface.	0
139	Inverse Vulcanization Polymer-Modified Eucommia ulmoides Gum with Enhanced Shape Memory Capability and Sound Absorption Property.	1
138	Boron removal by glucamine-functionalized inverse vulcanized sulfur polymer. <b>2022</b> , 177, 105311	0

137	Fibrous organosulfur cathode materials with high bonded sulfur for high-performance lithium-sulfur batteries. <b>2022</b> , 541, 231693	2
136	The Importance of Mentorship and Science Outreach to the Next Generation. 53-65	
135	Incorporation of fillers to modify the mechanical performance of inverse vulcanised polymers.	0
134	Inverse vulcanised sulfur polymer nanoparticles prepared by antisolvent precipitation.	0
133	Hydrogen Sulfide Capture and Removal Technologies: A Comprehensive Review of Recent Developments and Emerging Trends. <b>2022</b> , 121448	1
132	Inverse Vulcanization with SiO <sub>2</sub> -Embedded Elemental Sulfur for Superhydrophobic, Anticorrosion, and Antibacterial Coatings.	2
131	A comparison of adhesive polysulfides initiated by garlic essential oil and elemental sulfur to create recyclable adhesives.	2
130	A sulfur-containing polymer-plasticized poly(ethylene oxide)-based electrolyte enables highly effective lithium dendrite suppression.	0
129	Advances in Understanding and Regulation of Sulfur Conversion Processes in Metal-Sulfur Batteries.	0
128	Conducting polymers with redox active pendant groups: their application progress as organic electrode materials for rechargeable batteries.	0
127	Nanowires and Nanotubes. 1-50	1
126	Sulfur enriched slow-release coated urea produced from inverse vulcanized copolymer. <b>2022</b> , 157417	3
125	Unity of Opposites between Soluble and Insoluble Lithium Polysulfides in Lithium Sulfur Batteries. 2203699	6
124	Reaction of Sulfur and Sustainable Algae Oil for Polymer Synthesis and Enrichment of Saturated Triglycerides. <b>2022</b> , 10, 9022-9028	1
123	Lithiated carboxylated nitrile butadiene rubber with strong polysulfide immobilization ability as a binder for improving lithium-sulfur battery performance. <b>2022</b> , 542, 231771	0
122	Sulfur-urushiol copolymer: A material synthesized through inverse vulcanization from renewable resources and its latent application as self-repairable and antimicrobial adhesive. <b>2022</b> , 450, 137905	2
121	Synthesis and characterization of polysulfides formed by the inverse vulcanisation of cyclosiloxanes with sulfur. <b>2022</b> , 13, 4717-4726	1
120	Co-Application of Porous Polysulfide Pellets with <i>Acidithiobacillus thiooxidans</i> Improves Sulfate Availability in Soil.	

- 119 In Operando FTIR Study on the Effect of Sulfur Chain Length in Sulfur Copolymer-Based LiS Batteries. **2022**, 126, 12327-12338 0
- 118 Meringue-derived hierarchically porous carbon as an efficient polysulfide regulator for lithium-sulfur batteries. **2022**, 1 1
- 117 Synthesis of a sulfur-containing polyHIPE from a sustainable monomer by using inverse vulcanization approach. 0
- 116 Nuclear magnetic resonance structural characterization of sulfur-derived copolymers from inverse vulcanization. Part 1: Styrene. 0
- 115 Systematic Control of Sulfur Chain Length of High Refractive Index, Transparent Sulfur-Containing Polymers with Enhanced Thermal Stability. **2022**, 55, 7222-7231 2
- 114 Mechanochemical synthesis of inverse vulcanized polymers. **2022**, 13, 4 4
- 113 Molecular engineering of sulfur-providing materials for optimized sulfur conversion in Li-S chemistry. 0
- 112 Polyglycerol-functionalized microporous carbon/sulfur cathode for Li-S battery. **2022**, 429, 141000 1
- 111 Oxygen heteroatom enhanced sulfur-rich polymers synthesized by inverse vulcanization for high-performance lithium-sulfur batteries. **2022**, 545, 231921 0
- 110 Role of sulfur based compounds in monitoring of various analytes through spectroscopical investigations. **2022**, 144, 109836 0
- 109 A flexible design strategy to modify Ti3C2T MXene surface terminations via nucleophilic substitution for long-life Li-S batteries. **2022**, 74, 349-358 0
- 108 In situ structural evolutions of sulfur-limonene polysulfides encapsulated in yeast-derived porous N-doped carbon spheres for high-performance LiS batteries. **2022**, 26, 101138 0
- 107 One-step fabrication of self-healing poly(thioctic acid) coatings on ZE21B Mg alloys for enhancing corrosion resistance, anti-bacterial/oxidation, hemocompatibility and promoting re-endothelialization. **2023**, 451, 139096 0
- 106 Synthesis of insoluble sulfur and development of green technology based on Aspen Plus simulation. **2022**, 11, 886-894 0
- 105 A Perspective on Sulfur-Equivalent Cathode Materials for Lithium-Sulfur Batteries. 1, 0
- 104 Investigation of low molecular weight sulfur-limonene polysulfide electrodes in LiS cells. **2022**, 10, 18278-18294 0
- 103 Preparation and characterization of inverse vulcanized copolymers using taramira oil. **2022**, 0
- 102 Preparation of asphalt-based microporous organic polymers with sulfur bridge. 0

101	Recent Advances in Monomer Design for Recyclable Polymers. <b>2022</b> , 80, 1165	1
100	A Thianthrene-based small molecule as high-potential cathode for lithium-organic batteries.	1
99	Tracking side reactions of the inverse vulcanization process and developing monomer selection guidelines. <b>2022</b> , 13, 5486-5493	1
98	Inverse vulcanization of trimethoxyvinylsilane particles.	0
97	Thermally highly stable polyhedral oligomeric silsesquioxane (POSS)-sulfur based hybrid inorganic/organic polymers: synthesis, characterization and removal of mercury ion. <b>2022</b> , 13, 5152-5158	0
96	Organosulfur Polymer-Based Cathode Materials for Rechargeable Batteries.	1
95	Recent advances in the ring-opening polymerization of sulfur-containing monomers. <b>2022</b> , 13, 4858-4878	6
94	Magnetic responsive composites made from a sulfur-rich polymer.	1
93	The recent development of inverse vulcanized polysulfide as an alternative adsorbent for heavy metal removal in wastewater. <b>2023</b> , 216, 114306	0
92	Fabrication of TiN-Based Superhydrophobic Anti-Corrosion Coating by Inverse Vulcanization. <b>2022</b> , 95, 1253-1262	0
91	Facile Strategy for Room Temperature Knitting of Sulfur in Polybenzoxazine: A New Class of Solution Processable Copolymers. <b>2022</b> , 10, 12355-12364	0
90	Recyclable Sulfur-Rich Polymers with Enhanced Thermal, Mechanical, and Optical Performance.	1
89	Introducing the Latest Self-healing Polymer Based on Thioctic Acid into the Undergraduate Chemistry Laboratory.	0
88	Inverse Vulcanization of Vinyltriethoxysilane: A Novel Interfacial Coupling Agent for Silica-Filled Rubber Composites.	0
87	Sulfur-rich polymer nanoparticles prepared by miniemulsion polymerization.	1
86	Designing and tuning the components of random terpolymers toward Ampere-hour-scale organic lithium batteries.	0
85	Biopolymer Based Materials as Alternative Greener Binders for Sustainable Electrochemical Energy Storage Applications. <b>2022</b> , 7,	0
84	Progress and Prospects of Emerging Potassium Sulfur Batteries. 2202523	1

83	Photoinduced inverse vulcanization. <b>2022</b> , 14, 1249-1257	6
82	Making light of inverse vulcanization.	0
81	Turning abundant waste sulfur to polymers for manufacturing: Exploiting role of organic crosslinkers and benign catalysts. <b>2022</b> ,	0
80	Ring-to-Chain Structural Relaxation of Elemental Sulfur upon Photoexcitation. 2362-2367	0
79	Porous-crystalline C/Fe <sub>3</sub> O <sub>4</sub> microspheres with highly accessible adsorptive/catalytic and conductive interfaces to manipulate polysulfide shuttling in Li-S batteries. <b>2022</b> , 435, 141385	0
78	Polysulfide shuttle mitigation through a tailored separator for critical temperature energy-dense lithium-sulfur batteries.	0
77	Alkali-assisted facile and scalable preparation of fluorescent sulfur-doped carbon dots with excellent optical and biological properties from thiocetic acid. <b>2023</b> , 254, 119519	0
76	Generic Recycling Strategy to Improve Robustness of Recycled Rubbers through Bioinspired Multiphase Network.	0
75	Preparation and application of recyclable multifunctional self-healing thiocetic acid-based materials. <b>2022</b> , 181, 111695	0
74	Synthesis of Fluorescent Poly(silyl indole)s via Borane-Catalyzed C <sub>6</sub> H <sub>5</sub> Silylation of Indoles.	0
73	Molecular polysulfide-scavenging sulfurized triazine polymer enable high energy density Li-S battery under lean electrolyte. <b>2023</b> , 55, 225-235	0
72	Solvent-free fabrication of photothermal polypyrrole-coated sulfur particles for solar steam generation. <b>2023</b> , 612, 155815	0
71	Building Lithium-Polycarbonylsulfide Batteries with High Energy Density and Long Cycling Life. 79-89	0
70	A facile approach towards high-performance poly(thioether-thioester)s with full recyclability.	0
69	Fabrication and evaluation of novel sulfur/epoxy resin composites.	0
68	Coordination of Noble Metals in Poly(vinyl mercaptoethanol) Particles Prepared by Precipitation/Emulsion Polymerization. 2200379	0
67	Sulfonyl Chlorides: An Alternative Monomer Feedstock from Elemental Sulfur for Polymer Synthesis. <b>2022</b> , 144, 23044-23052	2
66	The Twelve Principles of Circular Hydrometallurgy.	1



- 65 Highly Sensitive and Cost-Effective Polymeric-Sulfur-Based Mid-Wavelength Infrared Linear Polarizers with Tailored Fabry-Pérot Resonance. 2209377 ○
- 64 An efficient ring-opening copolymerization of thiiranes with elemental sulfur in the presence of the fluoride anion. **2022**, 125638 ○
- 63 Sustainable polythioesters via thio(no)lactones: monomer synthesis, ring-opening polymerization, end-of-life considerations and industrial perspectives. ○
- 62 Ship-In-a-Bottle Strategy to Construct Polymeric Sulfur Inside Mesoporous Carbon for High-Performance Lithium-Sulfur Batteries. **2023**, 11, 777-784 ○
- 61 Acid-catalyzed Disulfide-mediated Reversible Polymerization for Recyclable Dynamic Covalent Materials. ○
- 60 Acid-catalyzed Disulfide-mediated Reversible Polymerization for Recyclable Dynamic Covalent Materials. 1
- 59 Sulfur polymerization strategy based on the intrinsic properties of polymers for advanced binder-free and high-sulfur-content Li-S batteries. ○
- 58 The Role of Carbon-Based Cathode Components in Li-S Batteries. ○
- 57 A natural polymer with desirable self-healing and recyclable, antibacterial, and adhesive properties based on turpentine monomer. **2023**, 7, 333-344 1
- 56 Sustainable Composites from Waste Sulfur, Terpenoids, and Pozzolan Cements. **2023**, 7, 35 ○
- 55 Tough while Recyclable Plastics Enabled by Monothiodilactone Monomers. 1
- 54 Chemically Debondable, High-strength and Tough Adhesives from Sulfur Modified Epoxy Networks. ○
- 53 Sulfur-Composites Derived from Poly(acrylonitrile) and Poly(vinylacetylene) | A Comparative Study on the Role of Pyridinic and Thioamidic Nitrogen. ○
- 52 A self-healing and antibacterial electronic skin based on a natural small molecule. ○
- 51 Ligand Decomposition during Nanoparticle Synthesis: Influence of Ligand Structure and Precursor Selection. ○
- 50 Photo-crosslinkable Inorganic/Organic Sulfur Polymers. 2200798 ○
- 49 A Microphase Separation Strategy for the Infrared Transparency-Thermomechanical Property Conundrum in Sulfur-Rich Copolymers. 2202432 ○
- 48 Sulfydryl-modified MXene as a sulfur host for highly stable Li-S batteries. **2023**, 441, 141877 ○

- 47 Enhanced wastewater bioremediation by a sulfur-based copolymer as scaffold for microalgae immobilization (AlgaPol). **2023**, 315, 137761 1
- 46 Future potential for lithium-sulfur batteries. **2023**, 558, 232566 0
- 45 Interface Coupling in Rubber/Carbon Black Composites toward Superior Energy-Saving Capability Enabled by Amino-Functionalized Polysulfide. 0
- 44 Redox-Active, Sulfur-Containing Polymers. **2023**, 203-254 0
- 43 Multicomponent polymerization of sulfur, chloroform and diamine toward polythiourea. 0
- 42 Photoactive organo-sulfur polymers for hydrogen generation. 0
- 41 Enhancement of thermomechanical properties of sulfur-rich polymers by post-thermal treatment. 0
- 40 Durable composites by vulcanization of oleyl-esterified lignin. **2023**, 13, 3234-3240 0
- 39 Preparation of functionalized diene-elastomers upon top-down pyrolysis of their vulcanizates via dynamic covalent polymerization. 0
- 38 How Regiochemistry Influences Aggregation Behavior and Charge Transport in Conjugated Organosulfur Polymer Cathodes for LithiumSulfur Batteries. 0
- 37 Near-infrared-light responsive degradable polysulfide pesticide carriers by one-pot inverse vulcanization. **2023**, 462, 142191 0
- 36 Toward high-sulfur-content, high-performance lithium-sulfur batteries: Review of materials and technologies. **2023**, 80, 625-657 1
- 35 Regioselective copolymerization of epoxides and phthalic thioanhydride to produce isotacticity-rich semiaromatic polythioesters. **2023**, 190, 111985 0
- 34 Sulphur-containing phenylethynyl terminated polyimide via chemical crosslinking method for excellent thermal properties and antibacterial performance. **2023**, 186, 105550 0
- 33 Unpaired electrons-induced geochemical activity of native sulfur in energy-triggered ring-opening process. **2023**, 348, 355-368 0
- 32 A semi-immobilized sulfur-rich copolymer backbone with conciliatory polymer skeleton and conductive substrates for high-performance Li-S batteries. **2023**, 81, 510-518 0
- 31 Sulfur-containing adsorbent made by inverse vulcanization of sulfur/oleylamine/potato starch for efficient removal of Hg(II) ions. **2023**, 11, 109806 0
- 30 Synthesis, characterization and application of high sulfur content polymeric materials from fatty acids. **2023**, 187, 105581 0

- 29 Influence of pozzolans on plant oil-sulfur polymer cements: More sustainable and chemically-resistant alternatives to Portland cement. **2023**, 140, ○
- 28 Organosulfur Materials for Rechargeable Batteries: Structure, Mechanism, and Application. **2023**, 123, 1262-1326 ○
- 27 State and future implementation perspectives of porous carbon-based hybridized matrices for lithium sulfur battery. **2023**, 481, 215055 ○
- 26 Single-stage chemical recycling of plastic waste to yield durable composites via a tandem transesterification-thiocracking process. ○
- 25 Reaction between 1,3,5-Triisopropylbenzene and Elemental Sulfur Extending the Scope of Reagents in Inverse Vulcanization. **2023**, 44, ○
- 24 Sulfur-ethyleneamine copolymer synthesized via inverse vulcanization for the selective recovery of copper from lithium-ion battery E-waste. **2023**, 7, 1374-1384 ○
- 23 Rough Endoplasmic Reticulum Inspired Polystyrene-Brush-Based Superhigh Sulfur Content Cathodes Enable Lithium-Sulfur Cells with High Mass and Capacity Loading. ○
- 22 Sulfur recycling into value-added materials: a review. ○
- 21 Elastomeric Polyurethane Foam from Elemental Sulfur with Exceptional Mercury Capture Capability. **2023**, 62, 3492-3502 ○
- 20 Raman analysis of inverse vulcanised polymers. **2023**, 14, 1369-1386 ○
- 19 Polysulfide-Induced Synthesis of Hierarchical Ni<sub>3</sub>S<sub>2</sub>/NiCo<sub>2</sub>S<sub>4</sub> Nanorods Supported on Nickel Foam for Boosted Oxygen Evolution Catalysis. **2023**, 127, 4808-4815 ○
- 18 Polysulfides as Sorbents in Support of Sustainable Recycling. **2023**, 11, 3557-3567 ○
- 17 Direct Synthesis of Thioesters from Feedstock Chemicals and Elemental Sulfur. **2023**, 145, 5846-5854 ○
- 16 Inverse Vulcanized Polymers for Sustainable Metal Remediation. 2300010 ○
- 15 Sulfur Polymer as Emerging Advanced Materials: Synthesis and Applications. **2023**, 8, ○
- 14 Polythiourethane composite film with high transparency, high refractive index and low dispersion containing ZnS nanoparticle via thiol-ene click chemistry. ○
- 13 Synthesis and performance evaluation of slow-release fertilizers produced from inverse vulcanized copolymers obtained from industrial waste. **2023**, 13, 7867-7876 1
- 12 Recent progress in advanced organosulfur cathode materials for rechargeable lithium batteries. **2023**, ○

- 11 Exploring inverse vulcanization in lithium-sulfur batteries. **2023**, 39, 101271 ○
- 10 A review on use of elemental sulphur in the synthesis of sulphur-based polymers. **2023**, 39, 101271 ○
- 9 Pressure-Sensitive Supramolecular Adhesives Based on Lipoic Acid and Biofriendly Dynamic Cyclodextrin and Polyrotaxane Cross-Linkers. **2023**, 15, 17256-17267 ○
- 8 Detoxification of bisphenol A via sulfur-mediated carbon-carbon bond scission. **2023**, 15, 17256-17267 ○
- 7 Conjugated Carbon-Based Materials for Infrared Thermal Imaging. 2300029 ○
- 6 A Versatile Sulfur-Assisted Pyrolysis Strategy for High-Atom-Economy Upcycling of Waste Plastics into High-Value Carbon Materials. **2023**, 15, 1853 ○
- 5 Small Molecules, Great Powers: Chemistry of Small Organo-Chalcogenide Molecules in Rechargeable Li-Sulfur Batteries. **2023**, 239, 110075 ○
- 4 TM-Free and TM-Catalyzed Mechanochemistry of Functional Polymers. **2023**, 15, 1853 ○
- 3 Sulfur-Polymer Nanoparticles: Preparation and Antibacterial Activity. **2023**, 239, 110075 ○
- 2 Dual functions of inverse vulcanized copolymers as both vulcanizator and interfacial modifier for improving the mechanical properties of silica reinforced rubber composites. **2023**, 239, 110075 ○
- 1 Comprehensive itaconic acid-based vitrimers via one-pot inverse vulcanization. **2023**, 39, 101271 ○