

# Liang Chen

## List of Publications by Year in descending order

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57  
papers

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citations

218677

26  
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214800

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docs citations

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times ranked

3357  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Heterostructured Sulfonated CNT/Sulfur/CNT Cathode for Promoting the Binary Conversion of Polysulfides in Lithium-Metal Batteries. Batteries and Supercaps, 2022, 5, .	4.7	4
2	Experimental Study and Optimization on Solution and Artificial Aging of Cold-Rolled 2024 Al Alloy Sheet. Journal of Materials Engineering and Performance, 2022, 31, 5419-5431.	2.5	4
3	Surface modification of Na <sub>0.44</sub> MnO <sub>2</sub> via a nonaqueous solution-assisted coating for ultra-Stable and High-Rate sodium-ion batteries. Chemical Engineering Journal Advances, 2022, 10, 100292.	5.2	7
4	Flame-retardant, thermal and mechanical properties of PLA/ramie fiber composites. Polymer Composites, 2022, 43, 4244-4254.	4.6	9
5	A Novel Core-Shell Structure TiO <sub>2</sub> Nanolayer Sphere Preparation and Electrocatalytic Degradation Study. Science of Advanced Materials, 2022, 14, 576-580.	0.7	4
6	Bimodal Phenomenon of the Stress-Strain Curve During Hot Compression of LA43M Mg-Li Alloy. Metals and Materials International, 2021, 27, 4195-4203.	3.4	6
7	Development of sulfonated-carbon nanotubes/graphene three-dimensional conductive spongy framework with ion-selective effect as cathode in high-performance lithium-sulfur batteries. Chemical Engineering Journal, 2021, 409, 128164.	12.7	34
8	Evaluation of Co-Au bimetallic nanoparticles as anode electrocatalyst for direct borohydride-hydrogen peroxide fuel cell. Ionics, 2021, 27, 3521.	2.4	6
9	An Investigation on the Anisotropic Plastic Behavior and Forming Limits of an Al-Mg-Li Alloy Sheet. Journal of Materials Engineering and Performance, 2021, 30, 8224-8234.	2.5	8
10	Copper and Zirconium Codoped O <sub>3</sub> -Type Sodium Iron and Manganese Oxide as the Cobalt/Nickel-Free High-Capacity and Air-Stable Cathode for Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2021, 13, 45528-45537.	8.0	33
11	Cobalt vanadium layered double Hydroxide/FeOOH heterostructure catalyst with strong electron interactions for stable oxygen evolution performance. Composites Communications, 2021, 27, 100780.	6.3	18
12	Electrochemical redox kinetic behavior of S <sub>8</sub> and Na <sub>2</sub> S (n = 2, 4, 6, 8) on vulcan XC-72R carbon in a flowing-electrolyte system. Journal of Power Sources, 2020, 478, 229074.	7.8	2
13	The critical role of titanium cation in the enhanced performance of P <sub>2</sub> -Na <sub>0.5</sub> Ni <sub>0.25</sub> Mn <sub>0.60</sub> Ti <sub>0.15</sub> O <sub>2</sub> cathode material for sodium-ion batteries. Physical Chemistry Chemical Physics, 2020, 22, 19992-19998.	2.8	17
14	Designing Sodium Manganese Oxide with 4% Cation Zr Doping as a High-Rate-Performance Cathode for Sodium-Ion Batteries. ChemElectroChem, 2020, 7, 2545-2552.	3.4	9
15	Designing Sodium Manganese Oxide with 4% Cation Zr Doping as a High-Rate-Performance Cathode for Sodium-Ion Batteries. ChemElectroChem, 2020, 7, 2497-2497.	3.4	0
16	In situ fabrication of 3D self-supporting cobalt phosphate-modified graphite felt electrocatalysts for oxygen evolution reaction in neutral solution. Journal of Electroanalytical Chemistry, 2020, 862, 114031.	3.8	7
17	Low-Strain Reticular Sodium Manganese Oxide as an Ultrastable Cathode for Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2020, 12, 14174-14184.	8.0	24
18	Layered P <sub>3</sub> type K <sub>0.48</sub> Ni <sub>0.2</sub> Co <sub>0.2</sub> Mn <sub>0.6</sub> O <sub>2</sub> with microspherical and microcubic mixed morphology as a cathode material for potassium-ion batteries. Materials Letters, 2020, 270, 127733.	2.6	19

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19	Investigation on microstructure and mechanical properties of Al <sub>0.50</sub> Zn <sub>0.25</sub> Mg <sub>0.136</sub> Cu alloy fabricated by hot extrusion process. <i>Journal of Materials Research</i> , 2019, 34, 3151-3162.	2.6	5
20	Fluorine anion doped Na <sub>0.44</sub> MnO <sub>2</sub> with layer-tunnel hybrid structure as advanced cathode for sodium ion batteries. <i>Journal of Power Sources</i> , 2019, 427, 129-137.	7.8	55
21	Lath-shaped biomass derived hard carbon as anode materials with super rate capability for sodium-ion batteries. <i>Journal of Electroanalytical Chemistry</i> , 2019, 841, 63-72.	3.8	39
22	Flame retardancy and toughening modification of glass fiber-reinforced polycarbonate composites. <i>Polymer Journal</i> , 2019, 51, 657-665.	2.7	10
23	A 3D stable and highly conductive scaffold with carbon nanotubes/carbon fiber as electrode for lithium sulfur batteries. <i>Materials Letters</i> , 2019, 251, 180-183.	2.6	15
24	Effects of thermoplastic elastomer on the morphology and mechanical properties of glass fiber reinforced polycarbonate/acrylonitrile-butadiene-styrene. <i>Polymer Engineering and Science</i> , 2019, 59, E144.	3.1	9
25	Correlation between homogenization treatment and subsequent hot extrusion of Al <sub>0.5</sub> Mg <sub>0.5</sub> Si alloy. <i>Journal of Materials Science</i> , 2019, 54, 9843-9856.	3.7	21
26	Trimethyl Phosphate for Nonflammable Carbonate-Based Electrolytes for Safer Room-Temperature Sodium-Sulfur Batteries. <i>ChemElectroChem</i> , 2019, 6, 1229-1234.	3.4	23
27	Fluoroethylene carbonate as an additive in a carbonates-based electrolyte for enhancing the specific capacity of room-temperature sodium-sulfur cell. <i>Journal of Electroanalytical Chemistry</i> , 2019, 832, 392-398.	3.8	33
28	Application and analysis of spread die and flat container in the extrusion of a large-size, hollow, and flat-wide aluminum alloy profile. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 94, 4247-4263.	3.0	17
29	Preform optimization and microstructure analysis on hot precision forging process of a half axle flange. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 95, 2157-2167.	3.0	9
30	Curly hard carbon derived from pistachio shells as high-performance anode materials for sodium-ion batteries. <i>Journal of Materials Science</i> , 2018, 53, 12334-12351.	3.7	47
31	Flow behavior and constitutive description of 20CrMnTi steel at high temperature. <i>Journal of Central South University</i> , 2018, 25, 1013-1024.	3.0	7
32	Investigation on longitudinal weld seams during porthole die extrusion process of high strength 7075 aluminum alloy. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 91, 1897-1907.	3.0	16
33	Investigation on Hydrogen-Induced Delayed Fracture of Cold-Rolled DP980 Steels. <i>Journal of Materials Engineering and Performance</i> , 2017, 26, 2024-2031.	2.5	1
34	Study on solid bonding behavior of AZ31 Mg alloy during porthole die extrusion process. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 93, 2791-2799.	3.0	12
35	Fast and scalable synthesis of durable Na <sub>0.44</sub> MnO <sub>2</sub> cathode material via an oxalate precursor method for Na-ion batteries. <i>Electrochimica Acta</i> , 2017, 258, 1035-1043.	5.2	42
36	TiO <sub>2</sub> /Sunflower Seed Shell-derived Carbon Micro Fiber Hybrids as Promising Anode Materials for Sodium-ion Batteries. <i>International Journal of Electrochemical Science</i> , 2017, 12, 1929-1942.	1.3	2

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37	Hierarchically Porous CuCo <sub>2</sub> O <sub>4</sub> Microflowers: a Superior Anode Material for Li-ion Batteries and a Stable Cathode Electrocatalyst for Li-O <sub>2</sub> Batteries. <i>Electrochimica Acta</i> , 2016, 208, 148-155.	5.2	53
38	Coaxial MnO/N-doped carbon nanorods for advanced lithium-ion battery anodes. <i>Journal of Materials Chemistry A</i> , 2015, 3, 1037-1041.	10.3	192
39	Hydrogenated TiO <sub>2</sub> Branches Coated Mn <sub>3</sub> O <sub>4</sub> Nanorods as an Advanced Anode Material for Lithium Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 10348-10355.	8.0	81
40	Effects of ram velocity on pyramid die extrusion of hollow aluminum profile. <i>International Journal of Advanced Manufacturing Technology</i> , 2015, 79, 2117-2125.	3.0	22
41	Evaluation of a pyramid die extrusion for a hollow aluminum profile using FE simulation. <i>Journal of Mechanical Science and Technology</i> , 2015, 29, 2195-2203.	1.5	16
42	Tunnel-structured Na <sub>0.54</sub> Mn <sub>0.50</sub> Ti <sub>0.51</sub> O <sub>2</sub> and Na <sub>0.54</sub> Mn <sub>0.50</sub> Ti <sub>0.51</sub> O <sub>2</sub> /C nanorods as advanced cathode materials for sodium-ion batteries. <i>Chemical Communications</i> , 2015, 51, 8480-8483.	4.1	32
43	Coaxial Manganese Dioxide@N-doped Carbon Nanotubes as Superior Anodes for Lithium Ion Batteries. <i>Electrochimica Acta</i> , 2015, 182, 676-681.	5.2	37
44	Surface-Deficient Li <sub>3</sub> VO <sub>4</sub> as a Promising Anode Material for Lithium-ion Batteries. <i>Advanced Science</i> , 2015, 2, 1500090.	11.2	90
45	Hot Deformation Behaviors and Processing Maps of 2024 Aluminum Alloy in As-cast and Homogenized States. <i>Journal of Materials Engineering and Performance</i> , 2015, 24, 5002-5012.	2.5	38
46	A comparative study of lithium-storage performances of hematite: Nanotubes vs. nanorods. <i>Journal of Power Sources</i> , 2014, 245, 429-435.	7.8	62
47	Novel mesoporous silicon nanorod as an anode material for lithium ion batteries. <i>Electrochimica Acta</i> , 2014, 127, 252-258.	5.2	95
48	Porous ZnMn <sub>2</sub> O <sub>4</sub> microspheres as a promising anode material for advanced lithium-ion batteries. <i>Nano Energy</i> , 2014, 6, 193-199.	16.0	154
49	Hierarchical core-shell Fe <sub>2</sub> O <sub>3</sub> @C nanotubes as a high-rate and long-life anode for advanced lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 3439-3444.	10.3	55
50	Facile synthesis of hierarchically porous NiO micro-tubes as advanced anode materials for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 16847-16850.	10.3	73
51	Facile Fabrication of a Three-Dimensional Cross-Linking TiO <sub>2</sub> Nanowire Network and Its Long-Term Cycling Life for Lithium Storage. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 10107-10112.	8.0	31
52	General synthesis of hollow MnO <sub>2</sub> , Mn <sub>3</sub> O <sub>4</sub> and MnO nanospheres as superior anode materials for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 17421-17426.	10.3	213
53	Analysis and porthole die design for a multi-hole extrusion process of a hollow, thin-walled aluminum profile. <i>International Journal of Advanced Manufacturing Technology</i> , 2014, 74, 383-392.	3.0	43
54	Hierarchical vanadium pentoxide microflowers with excellent long-term cyclability at high rates for lithium ion batteries. <i>Journal of Power Sources</i> , 2014, 272, 991-996.	7.8	46

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55	A general approach for $MFe_2O_4$ ( $M = Zn, Co, Ni$ ) nanorods and their high performance as anode materials for lithium ion batteries. <i>Journal of Power Sources</i> , 2014, 247, 163-169.	7.8	158
56	Controlled Growth of Porous $Fe_2O_3$ Branches on $MnO_2$ Nanorods for Excellent Performance in Lithium Ion Batteries. <i>Advanced Functional Materials</i> , 2013, 23, 4049-4056.	14.9	181
57	Effect of different carbon sources on the electrochemical properties of rod-like $LiMnPO_4$ C nanocomposites. <i>RSC Advances</i> , 2013, 3, 6847.	3.6	37