# Huijun Yang

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/18130/publications.pdf

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|---|---|---|---|
| 50<br>papers | 4,142<br>citations | 172457<br>29<br>h-index | 189892<br>50<br>g-index |
| 50<br>all docs | 50<br>docs citations | 50<br>times ranked | 2579<br>citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Sifting weakly-coordinated solvents within solvation sheath through an electrolyte filter for high-voltage lithium-metal batteries. Energy Storage Materials, 2022, 44, 360-369. | 18.0 | 14 |
| 2 | Restraining Oxygen Release and Suppressing Structure Distortion in Singleâ€Crystal Liâ€Rich Layered Cathode Materials. Advanced Functional Materials, 2022, 32, 2110295. | 14.9 | 62 |
| 3 | Highly safe and stable lithiumâ€“metal batteries based on a quasi-solid-state electrolyte. Journal of Materials Chemistry A, 2022, 10, 651-663. | 10.3 | 32 |
| 4 | High strength hydrogels enable dendrite-free Zn metal anodes and high-capacity Znâ€“MnO<sub>2</sub> batteries via a modified mechanical suppression effect. Journal of Materials Chemistry A, 2022, 10, 3122-3133. | 10.3 | 17 |
| 5 | A low-cost and non-corrosive electropolishing strategy for long-life zinc metal anode in rechargeable aqueous battery. Energy Storage Materials, 2022, 46, 223-232. | 18.0 | 12 |
| 6 | Building a Beyond Concentrated Electrolyte for Highâ€Voltage Anodeâ€Free Rechargeable Sodium Batteries. Angewandte Chemie, 2022, 134, . | 2.0 | 15 |
| 7 | Building a Beyond Concentrated Electrolyte for Highâ€Voltage Anodeâ€Free Rechargeable Sodium Batteries. Angewandte Chemie - International Edition, 2022, 61, . | 13.8 | 43 |
| 8 | A stable quasi-solid electrolyte improves the safe operation of highly efficient lithium-metal pouch cells in harsh environments. Nature Communications, 2022, 13, 1510. | 12.8 | 93 |
| 9 | Tailoring the Solvation Sheath of Cations by Constructing Electrode Frontâ€Faces for Rechargeable Batteries. Advanced Materials, 2022, 34, e2201339. | 21.0 | 66 |
| 10 | Electrolyte Sieving Chemistry in Suppressing Gas Evolution of Sodiumâ€Metal Batteries. Angewandte Chemie, 2022, 134, . | 2.0 | 6 |
| 11 | Electrolyte Sieving Chemistry in Suppressing Gas Evolution of Sodiumâ€Metal Batteries. Angewandte Chemie - International Edition, 2022, 61, . | 13.8 | 29 |
| 12 | Regulating Water Activity for Rechargeable Zinc-Ion Batteries: Progress and Perspective. ACS Energy Letters, 2022, 7, 2515-2530. | 17.4 | 94 |
| 13 | Pathways towards Highâ€Performance Aqueous Zincâ€Organic Batteries. Batteries and Supercaps, 2022, 5, . | 4.7 | 6 |
| 14 | A high-capacity cathode for rechargeable K-metal battery based on reversible superoxide-peroxide conversion. National Science Review, 2021, 8, nwaa287. | 9.5 | 12 |
| 15 | Applications of Metal-organic Frameworks (MOFs) Materials in Lithium-ion Battery/Lithium-metal Battery Electrolytes. Acta Chimica Sinica, 2021, 79, 139. | 1.4 | 10 |
| 16 | A Safe and Sustainable Lithiumâ€Ionâ€“Oxygen Battery based on a Lowâ€Cost Dualâ€Carbon Electrodes Architecture. Advanced Materials, 2021, 33, e2100827. | 21.0 | 14 |
| 17 | A high-energy-density and long-life initial-anode-free lithium battery enabled by a Li2O sacrificial agent. Nature Energy, 2021, 6, 653-662. | 39.5 | 175 |
| 18 | Sustainable Lithiumâ€Metal Battery Achieved by a Safe Electrolyte Based on Recyclable and Lowâ€Cost Molecular Sieve. Angewandte Chemie - International Edition, 2021, 60, 15572-15581. | 13.8 | 43 |

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|---|---|---|---|
| 19 | Sustainable Lithiumâ€Metal Battery Achieved by a Safe Electrolyte Based on Recyclable and Lowâ€Cost Molecular Sieve. Angewandte Chemie, 2021, 133, 15700-15709. | 2.0 | 2 |
| 20 | Designing Cationâ€“Solvent Fully Coordinated Electrolyte for Highâ€Energyâ€Density Lithiumâ€“Sulfur Full Cell Based On Solidâ€“Solid Conversion. Angewandte Chemie, 2021, 133, 17867-17875. | 2.0 | 11 |
| 21 | Designing Cationâ€“Solvent Fully Coordinated Electrolyte for Highâ€Energyâ€Density Lithiumâ€“Sulfur Full Cell Based On Solidâ€“Solid Conversion. Angewandte Chemie - International Edition, 2021, 60, 17726-17734. | 13.8 | 50 |
| 22 | Reducing Water Activity by Zeolite Molecular Sieve Membrane for Longâ€Life Rechargeable Zinc Battery. Advanced Materials, 2021, 33, e2102415. | 21.0 | 164 |
| 23 | A lithiophilic carbon scroll as a Li metal host with low tortuosity design and â€œDead Liâ€•self-cleaning capability. Journal of Materials Chemistry A, 2021, 9, 13332-13343. | 10.3 | 15 |
| 24 | Prospect of Sulfurized Pyrolyzed Poly(acrylonitrile) (S@pPAN) Cathode Materials for Rechargeable Lithium Batteries. Angewandte Chemie - International Edition, 2020, 59, 7306-7318. | 13.8 | 113 |
| 25 | Insights into high capacity and ultrastable carbonaceous anodes for potassium-ion storage via a hierarchical heterostructure. Journal of Materials Chemistry A, 2020, 8, 2836-2842. | 10.3 | 15 |
| 26 | Prospect of Sulfurized Pyrolyzed Poly(acrylonitrile) (S@pPAN) Cathode Materials for Rechargeable Lithium Batteries. Angewandte Chemie, 2020, 132, 7374-7386. | 2.0 | 30 |
| 27 | A Liquid Electrolyte with De-Solvated Lithium Ions for Lithium-Metal Battery. Joule, 2020, 4, 1776-1789. | 24.0 | 146 |
| 28 | A Metalâ€“Organic Framework as a Multifunctional Ionic Sieve Membrane for Longâ€Life Aqueous Zincâ€“Iodide Batteries. Advanced Materials, 2020, 32, e2004240. | 21.0 | 222 |
| 29 | Beyond the concentrated electrolyte: further depleting solvent molecules within a Li<sup>+</sup> solvation sheath to stabilize high-energy-density lithium metal batteries. Energy and Environmental Science, 2020, 13, 4122-4131. | 30.8 | 122 |
| 30 | Constructing a Superâ€Saturated Electrolyte Front Surface for Stable Rechargeable Aqueous Zinc Batteries. Angewandte Chemie - International Edition, 2020, 59, 9377-9381. | 13.8 | 551 |
| 31 | Constructing a Superâ€Saturated Electrolyte Front Surface for Stable Rechargeable Aqueous Zinc Batteries. Angewandte Chemie, 2020, 132, 9463-9467. | 2.0 | 327 |
| 32 | Dense and high loading sulfurized pyrolyzed poly (acrylonitrile)(S@pPAN) cathode for rechargeable lithium batteries. Energy Storage Materials, 2020, 31, 187-194. | 18.0 | 28 |
| 33 | A Safe Organic Oxygen Battery Built with Liâ€Based Liquid Anode and MOFs Separator. Advanced Energy Materials, 2020, 10, 1903953. | 19.5 | 33 |
| 34 | Towards practical Liâ€“S battery with dense and flexible electrode containing lean electrolyte. Energy Storage Materials, 2020, 27, 307-315. | 18.0 | 80 |
| 35 | A stable high-voltage lithium-ion battery realized by an in-built water scavenger. Energy and Environmental Science, 2020, 13, 1197-1204. | 30.8 | 67 |
| 36 | An Intrinsic Flameâ€Retardant Organic Electrolyte for Safe Lithiumâ€Sulfur Batteries. Angewandte Chemie, 2019, 131, 801-805. | 2.0 | 23 |

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|---|---|---|---|
| 37 | Highly Reversible Lithium-Metal Anode and Lithiumâ€“Sulfur Batteries Enabled by an Intrinsic Safe Electrolyte. ACS Applied Materials & Interfaces, 2019, 11, 33419-33427. | 8.0 | 38 |
| 38 | A Highly Reversible Zn Anode with Intrinsically Safe Organic Electrolyte for Longâ€Cycleâ€Life Batteries. Advanced Materials, 2019, 31, e1900668. | 21.0 | 259 |
| 39 | Halogen conversion-intercalation chemistry promises high energy density Li-ion battery. Science Bulletin, 2019, 64, 1393-1395. | 9.0 | 8 |
| 40 | Highly Reversible and Rechargeable Safe Zn Batteries Based on a Triethyl Phosphate Electrolyte. Angewandte Chemie - International Edition, 2019, 58, 2760-2764. | 13.8 | 369 |
| 41 | An Intrinsic Flameâ€Retardant Organic Electrolyte for Safe Lithiumâ€Sulfur Batteries. Angewandte Chemie - International Edition, 2019, 58, 791-795. | 13.8 | 152 |
| 42 | Highly Reversible and Rechargeable Safe Zn Batteries Based on a Triethyl Phosphate Electrolyte. Angewandte Chemie, 2019, 131, 2786-2790. | 2.0 | 54 |
| 43 | Safer lithiumâ€“sulfur battery based on nonflammable electrolyte with sulfur composite cathode. Chemical Communications, 2018, 54, 4132-4135. | 4.1 | 68 |
| 44 | Recent progress and perspective on lithium metal anode protection. Energy Storage Materials, 2018, 14, 199-221. | 18.0 | 195 |
| 45 | Duplex component additive of tris(trimethylsilyl) phosphite-vinylene carbonate for lithium sulfur batteries. Energy Storage Materials, 2018, 14, 75-81. | 18.0 | 33 |
| 46 | Lithium sulfur batteries with compatible electrolyte both for stable cathode and dendrite-free anode. Energy Storage Materials, 2018, 15, 299-307. | 18.0 | 92 |
| 47 | AlF<sub>3</sub>-Modified carbon nanofibers as a multifunctional 3D interlayer for stable lithium metal anodes. Chemical Communications, 2018, 54, 8347-8350. | 4.1 | 28 |
| 48 | Superior rate capability of a sulfur composite cathode in a tris(trimethylsilyl)borate-containing functional electrolyte. Chemical Communications, 2016, 52, 14430-14433. | 4.1 | 18 |
| 49 | Guar gum as a novel binder for sulfur composite cathodes in rechargeable lithium batteries. Chemical Communications, 2016, 52, 13479-13482. | 4.1 | 66 |
| 50 | Nitrogen-doped carbon coated anatase TiO2 anode material for lithium-ion batteries. Materials Letters, 2013, 109, 195-198. | 2.6 | 20 |