List of Publications by Year in descending order

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Ιιανιτιν Γιιι

| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | A Novel Ultra‣ensitive Semiconductor SERS Substrate Boosted by the Coupled Resonance Effect. Advanced Science, 2019, 6, 1900310. | 5.6 | 183 |
| 2 | Unraveling the Catalytic Mechanism of Co ₃ O ₄ for the Oxygen Evolution Reaction in a Li–O ₂ Battery. ACS Catalysis, 2015, 5, 73-81. | 5.5 | 140 |
| 3 | Adsorption-energy-based activity descriptors for electrocatalysts in energy storage applications. National Science Review, 2018, 5, 327-341. | 4.6 | 129 |
| 4 | Enhanced performance of in-plane transition metal dichalcogenides monolayers by configuring local atomic structures. Nature Communications, 2020, 11, 2253. | 5.8 | 112 |
| 5 | Auto-optimizing Hydrogen Evolution Catalytic Activity of ReS ₂ through Intrinsic Charge Engineering. ACS Nano, 2018, 12, 4486-4493. | 7.3 | 111 |
| 6 | Engineering Metallic Heterostructure Based on Ni ₃ N and 2Mâ€MoS ₂ for Alkaline Water Electrolysis with Industryâ€Compatible Current Density and Stability. Advanced Materials, 2022, 34, e2108505. | 11.1 | 104 |
| 7 | Facet-Dependent Electrocatalytic Performance of Co ₃ O ₄ for Rechargeable Li–O ₂ Battery. Journal of Physical Chemistry C, 2015, 119, 4516-4523. | 1.5 | 99 |
| 8 | Surface Acidity as Descriptor of Catalytic Activity for Oxygen Evolution Reaction in Li-O ₂ Battery. Journal of the American Chemical Society, 2015, 137, 13572-13579. | 6.6 | 92 |
| 9 | Manipulation on active electronic states of metastable phase β-NiMoO4 for large current density hydrogen evolution. Nature Communications, 2021, 12, 5960. | 5.8 | 86 |
| 10 | Partialâ€Singleâ€Atom, Partialâ€Nanoparticle Composites Enhance Water Dissociation for Hydrogen Evolution. Advanced Science, 2021, 8, 2001881. | 5.6 | 85 |
| 11 | Ultrathin Defective C–N Coating to Enable Nanostructured Li Plating for Li Metal Batteries. ACS Nano, 2020, 14, 1866-1878. | 7.3 | 83 |
| 12 | Activating Aromatic Rings as Na-Ion Storage Sites to Achieve High Capacity. CheM, 2018, 4, 2463-2478. | 5.8 | 82 |
| 13 | B-Doped Graphene as Catalyst To Improve Charge Rate of Lithium–Air Battery. Journal of Physical Chemistry C, 2014, 118, 22412-22418. | 1.5 | 81 |
| 14 | Defectâ€Concentrationâ€Mediated Tâ€Nb ₂ O ₅ Anodes for Durable and Fastâ€Charging Liâ€Ion Batteries. Advanced Functional Materials, 2022, 32, 2107060. | 7.8 | 68 |
| 15 | Green and Sensitive Flexible Semiconductor SERS Substrates: Hydrogenated Black TiO ₂ Nanowires. ACS Applied Nano Materials, 2018, 1, 4516-4527. | 2.4 | 60 |
| 16 | Shallow-layer pillaring of a conductive polymer in monolithic grains to drive superior zinc storage <i>via</i> a cascading effect. Energy and Environmental Science, 2020, 13, 3149-3163. | 15.6 | 57 |
| 17 | Non onjugated Dicarboxylate Anode Materials for Electrochemical Cells. Angewandte Chemie - International Edition, 2018, 57, 8865-8870. | 7.2 | 52 |
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Bond Electronegativity as Hydrogen Evolution Reaction Catalyst Descriptor for Transition Metal (TM) Tj ETQq0 0 0 rgBT /Overlock 10 Tf

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|----|---|------|-----------|
| 19 | Theoretical and Experimental Studies of Ti ₃ C ₂ MXene for Surface-Enhanced Raman Spectroscopy-Based Sensing. ACS Omega, 2020, 5, 26486-26496. | 1.6 | 44 |
| 20 | Identifying Metallic Transition-Metal Dichalcogenides for Hydrogen Evolution through Multilevel High-Throughput Calculations and Machine Learning. Journal of Physical Chemistry Letters, 2021, 12, 2102-2111. | 2.1 | 43 |
| 21 | Cyclic Ether–Water Hybrid Electrolyte-Guided Dendrite-Free Lamellar Zinc Deposition by Tuning the Solvation Structure for High-Performance Aqueous Zinc-Ion Batteries. ACS Applied Materials & Interfaces, 2021, 13, 40638-40647. | 4.0 | 40 |
| 22 | Enhancing ionic conductivity in solid electrolyte by relocating diffusion ions to under-coordination sites. Science Advances, 2022, 8, eabj7698. | 4.7 | 37 |
| 23 | Three-Dimensional Fast Na-Ion Transport in Sodium Titanate Nanoarchitectures via Engineering of Oxygen Vacancies and Bismuth Substitution. ACS Nano, 2021, 15, 13604-13615. | 7.3 | 36 |
| 24 | Dynamic coordination transformation of active sites in single-atom MoS ₂ catalysts for boosted oxygen evolution catalysis. Energy and Environmental Science, 2022, 15, 2071-2083. | 15.6 | 33 |
| 25 | Triple Conductive Wiring by Electron Doping, Chelation Coating and Electrochemical Conversion in Fluffy Nb ₂ O ₅ Anodes for Fastâ€Charging Liâ€Ion Batteries. Advanced Science, 2022, 9, . | 5.6 | 33 |
| 26 | Reducing the charge overpotential of Li–O ₂ batteries through band-alignment cathode design. Energy and Environmental Science, 2020, 13, 2540-2548. | 15.6 | 30 |
| 27 | Robustness-Heterogeneity-Induced Ultrathin 2D Structure in Li Plating for Highly Reversible Li–Metal Batteries. ACS Applied Materials & Interfaces, 2020, 12, 46132-46145. | 4.0 | 29 |
| 28 | Immobilizing an organic electrode material through π–π interaction for high-performance Li-organic batteries. Journal of Materials Chemistry A, 2019, 7, 22398-22404. | 5.2 | 23 |
| 29 | Niobium pentoxide ultra-thin nanosheets: A photocatalytic degradation and recyclable surface-enhanced Raman scattering substrate. Applied Surface Science, 2020, 509, 145376. | 3.1 | 21 |
| 30 | Secondary Bonding Channel Design Induces Intercalation Pseudocapacitance toward Ultrahighâ€Capacity and Highâ€Rate Organic Electrodes. Advanced Materials, 2021, 33, e2104039. | 11.1 | 18 |
| 31 | Tight bonding and high-efficiency utilization of S–S moieties to enable ultra-stable and high-capacity alkali-metal conversion batteries. Journal of Materials Chemistry A, 2021, 9, 6160-6171. | 5.2 | 17 |
| 32 | How inactive d0 transition metal controls anionic redox in disordered Li-rich oxyfluoride cathodes. Energy Storage Materials, 2020, 32, 253-260. | 9.5 | 16 |
| 33 | Surface Stability and Morphology of Calcium Phosphate Tuned by pH Values and Lactic Acid Additives: Theoretical and Experimental Study. ACS Applied Materials & Interfaces, 2022, 14, 4836-4851. | 4.0 | 16 |
| 34 | Relieving the "Sudden Death―of Li–O ₂ Batteries by Grafting an Antifouling Film on Cathode Surfaces. ACS Applied Materials & Interfaces, 2019, 11, 14753-14758. | 4.0 | 15 |
| 35 | Influence of Cu ²⁺ doping concentration on the catalytic activity of Cu _x Co _{3â^x} O ₄ for rechargeable Li–O ₂ batteries. Journal of Materials Chemistry A, 2017, 5, 18569-18576. | 5.2 | 13 |
| 36 | Stabilizing Low-Coordinated O Ions To Operate Cationic and Anionic Redox Chemistry of Li-Ion Battery Materials. ACS Applied Materials & Amp; Interfaces, 2019, 11, 37768-37778. | 4.0 | 13 |

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|----|--|-----|-----------|
| 37 | Maximizing ionic transport of Li1+xAlxTi2-xP3O12 electrolytes for all-solid-state lithium-ion storage: A theoretical study. Journal of Materials Science and Technology, 2021, 73, 45-51. | 5.6 | 12 |
| 38 | Surface Electronegativity as an Activity Descriptor to Screen Oxygen Evolution Reaction Catalysts of Li–O ₂ Battery. ACS Applied Materials & Interfaces, 2020, 12, 27166-27175. | 4.0 | 12 |
| 39 | Tailoring the redox-active transition metal content to enhance cycling stability in cation-disordered rock-salt oxides. Energy Storage Materials, 2021, 43, 275-283. | 9.5 | 11 |
| 40 | Cooperative Effect of Multiple Active Sites and Hierarchical Chemical Bonds in Metal–Organic Compounds for Improving Cathode Performance. ACS Energy Letters, 2020, 5, 477-485. | 8.8 | 10 |
| 41 | Alkaline-earth metal substitution stabilizes the anionic redox of Li-rich oxides. Journal of Materials Chemistry A, 2021, 9, 10364-10373. | 5.2 | 10 |
| 42 | Boosting the transport kinetics of free-standing SnS ₂ @Carbon nanofibers by electronic structure modulation for advanced lithium storage. Journal of Materials Chemistry A, 2022, 10, 9468-9481. | 5.2 | 9 |
| 43 | The critical role of oxygen-evolution kinetics in the electrochemical stability of oxide superionic conductors. Journal of Materials Chemistry A, 2019, 7, 17008-17013. | 5.2 | 8 |
| 44 | Vacancy-induced anion and cation redox chemistry in cation-deficient F-doped anatase TiO2. Journal of Materials Chemistry A, 2020, 8, 20393-20401. | 5.2 | 8 |
| 45 | Bambooâ€Based Biomaterials for Cell Transportation and Bone Integration. Advanced Healthcare Materials, 2022, 11, e2200287. | 3.9 | 8 |
| 46 | Theoretical Study of Fast Calculation of Damping Loss Factors for Rubber Polymers. Journal of Physical Chemistry Letters, 2020, 11, 6025-6031. | 2.1 | 7 |
| 47 | Optimized electron occupancy of solid-solution transition metals for suppressing the oxygen evolution of Li ₂ MnO ₃ . Journal of Materials Chemistry A, 2021, 9, 9337-9346. | 5.2 | 7 |
| 48 | Programmed self-assembly of enzyme activity-inhibited nanomedicine for augmenting chemodynamic tumor nanotherapy. Nanoscale, 2022, 14, 6171-6183. | 2.8 | 6 |
| 49 | Multiscale computations and artificial intelligent models of electrochemical performance in Liâ€ion battery materials. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2022, 12, . | 6.2 | 6 |
| 50 | Predicting Li-Rich Layered Oxide Compounds as High-Conductivity and Stable Solid Electrolytes. ACS Energy Letters, 2021, 6, 3793-3800. | 8.8 | 5 |
| 51 | Origin of multiple voltage plateaus in P2-type sodium layered oxides. Materials Horizons, 2022, 9, 1460-1467. | 6.4 | 5 |
| 52 | Effect of Coolant Crossflow on Film Cooling Effectiveness of Diffusion Slot Hole With and Without Ribs. Journal of Turbomachinery, 2022, 144, . | 0.9 | 5 |
| 53 | Theoretical studies of a 3D-to-planar structural transition in SinAl5â^'n+1,0,â^'1(n = 0–5) clusters. RSC Advances, 2015, 5, 13923-13929. | 1.7 | 3 |
| 54 | Electrochemical Activity of Positive Electrode Material of P2-Na <i>_x</i> [Mg _{0.33} Mn _{0.67}]O ₂ Sodium Ion Battery. Wuji Cailiao Xuebao/Journal of Inorganic Materials, 2021, 36, 623. | 0.6 | 3 |

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|----|--|-----|-----------|
| 55 | Achieving fast ionic conductivity and high electrochemical stability through polyhedral structure design. Energy Storage Materials, 2022, 47, 70-78. | 9.5 | 2 |
| 56 | Assembling organic–inorganic building blocks for high-capacity electrode design. Materials Horizons, 2021, 8, 1825-1834. | 6.4 | 1 |
| 57 | Critical Role of Interfacial Charge Transfer in Reducing Charge Potential of Li–O2 Battery. Journal of Physical Chemistry C, 0, , . | 1.5 | 1 |