# Jong-Min Lee

List of Publications by Year
in descending order



| | | | |
|---|---|---|---|
| 149 papers | 11,932 citations | 19657 61 h-index | 29157 104 g-index |
| 151 all docs | 151 docs citations | 151 times ranked | 11404 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Transition metal nitrides for electrochemical energy applications. Chemical Society Reviews, 2021, 50, 1354-1390. | 38.1 | 580 |
| 2 | Boosting Bifunctional Oxygen Electrocatalysis with 3D Graphene Aerogelâ€Supported Ni/MnO Particles. Advanced Materials, 2018, 30, 1704609. | 21.0 | 547 |
| 3 | Graphene for supercapacitor applications. Journal of Materials Chemistry A, 2013, 1, 14814. | 10.3 | 453 |
| 4 | A review on the electrochemical reduction of CO2 in fuel cells, metal electrodes and molecular catalysts. Catalysis Today, 2014, 233, 169-180. | 4.4 | 392 |
| 5 | Design Strategies for Development of TMD-Based Heterostructures in Electrochemical Energy Systems. Matter, 2020, 2, 526-553. | 10.0 | 312 |
| 6 | Structural and Electronic Optimization of MoS<sub>2</sub> Edges for Hydrogen Evolution. Journal of the American Chemical Society, 2019, 141, 18578-18584. | 13.7 | 292 |
| 7 | High performance asymmetric supercapacitors: New NiOOH nanosheet/graphene hydrogels and pure graphene hydrogels. Nano Energy, 2016, 19, 210-221. | 16.0 | 288 |
| 8 | Coâ€Induced Electronic Optimization of Hierarchical NiFe LDH for Oxygen Evolution. Small, 2020, 16, e2002426. | 10.0 | 263 |
| 9 | Metallenes as functional materials in electrocatalysis. Chemical Society Reviews, 2021, 50, 6700-6719. | 38.1 | 253 |
| 10 | Exploring Indiumâ€Based Ternary Thiospinel as Conceivable Highâ€Potential Airâ€Cathode for Rechargeable Znâ€“Air Batteries. Advanced Energy Materials, 2018, 8, 1802263. | 19.5 | 248 |
| 11 | MOFâ€Derived Hollow Cage Ni<sub>x</sub>Co<sub>3â^'</sub><sub>x</sub>O<sub>4</sub> and Their Synergy with Graphene for Outstanding Supercapacitors. Small, 2017, 13, 1603102. | 10.0 | 228 |
| 12 | Heterostructured Catalysts for Electrocatalytic and Photocatalytic Carbon Dioxide Reduction. Advanced Functional Materials, 2020, 30, 1910768. | 14.9 | 227 |
| 13 | Ternary metal sulfides for electrocatalytic energy conversion. Journal of Materials Chemistry A, 2019, 7, 9386-9405. | 10.3 | 225 |
| 14 | Recent advances in structural engineering of MXene electrocatalysts. Journal of Materials Chemistry A, 2020, 8, 10604-10624. | 10.3 | 201 |
| 15 | Superior Oxygen Electrocatalysis on Nickel Indium Thiospinels for Rechargeable Znâ€“Air Batteries. , 2019, 1, 123-131. | | 199 |
| 16 | Highly Efficient Oxygen Reduction Reaction Activity of Nâ€Doped Carbonâ€“Cobalt Boride Heterointerfaces. Advanced Energy Materials, 2021, 11, 2100157. | 19.5 | 190 |
| 17 | Electronic Modulation of Nonâ€van der Waals 2D Electrocatalysts for Efficient Energy Conversion. Advanced Materials, 2021, 33, e2008422. | 21.0 | 190 |
| 18 | Modulation of Single Atomic Co and Fe Sites on Hollow Carbon Nanospheres as Oxygen Electrodes for Rechargeable Znâ€“Air Batteries. Small Methods, 2021, 5, e2000751. | 8.6 | 178 |

| # | Article | IF | Citations |
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| 19 | Alveolate porous carbon aerogels supported Co9S8 derived from a novel hybrid hydrogel for bifunctional oxygen electrocatalysis. Carbon, 2019, 144, 557-566. | 10.3 | 177 |
| 20 | Hierarchically Porous Co/Co<sub>x</sub>M<sub>y</sub> (M = P, N) as an Efficient Mottâ€“Schottky Electrocatalyst for Oxygen Evolution in Rechargeable Znâ€“Air Batteries. Small, 2019, 15, e1901518. | 10.0 | 163 |
| 21 | Interstitial boron-triggered electron-deficient Os aerogels for enhanced pH-universal hydrogen evolution. Nature Communications, 2022, 13, 1143. | 12.8 | 152 |
| 22 | Confined growth of pyridinic Nâ€“Mo<sub>2</sub>C sites on MXenes for hydrogen evolution. Journal of Materials Chemistry A, 2020, 8, 7109-7116. | 10.3 | 148 |
| 23 | Robust N-doped carbon aerogels strongly coupled with ironâ€“cobalt particles as efficient bifunctional catalysts for rechargeable Znâ€“air batteries. Nanoscale, 2018, 10, 19937-19944. | 5.6 | 144 |
| 24 | Recent Trends, Benchmarking, and Challenges of Electrochemical Reduction of CO<sub>2</sub> by Molecular Catalysts. Advanced Energy Materials, 2019, 9, 1900090. | 19.5 | 144 |
| 25 | Linkage Effect in the Heterogenization of Cobalt Complexes by Doped Graphene for Electrocatalytic CO<sub>2</sub> Reduction. Angewandte Chemie - International Edition, 2019, 58, 13532-13539. | 13.8 | 143 |
| 26 | Polyallylamine-Functionalized Platinum Tripods: Enhancement of Hydrogen Evolution Reaction by Proton Carriers. ACS Catalysis, 2017, 7, 452-458. | 11.2 | 142 |
| 27 | Gd-induced electronic structure engineering of a NiFe-layered double hydroxide for efficient oxygen evolution. Journal of Materials Chemistry A, 2021, 9, 2999-3006. | 10.3 | 133 |
| 28 | Recent Advances in Carbonâ€Based Bifunctional Oxygen Electrocatalysts for Znâ^'Air Batteries. ChemElectroChem, 2018, 5, 1424-1434. | 3.4 | 129 |
| 29 | Trimetallic PtAgCu@PtCu core@shell concave nanooctahedrons with enhanced activity for formic acid oxidation reaction. Nano Energy, 2015, 12, 824-832. | 16.0 | 126 |
| 30 | Carbon-based hydrogels: synthesis and their recent energy applications. Journal of Materials Chemistry A, 2019, 7, 15491-15518. | 10.3 | 124 |
| 31 | Morphological and Interfacial Control of Platinum Nanostructures for Electrocatalytic Oxygen Reduction. ACS Catalysis, 2016, 6, 5260-5267. | 11.2 | 117 |
| 32 | Novel synthesis of high performance anode materials for lithium-ion batteries (LIBs). Journal of Materials Chemistry A, 2014, 2, 1589-1626. | 10.3 | 116 |
| 33 | Polyethyleneimine functionalized platinum superstructures: enhancing hydrogen evolution performance by morphological and interfacial control. Chemical Science, 2017, 8, 8411-8418. | 7.4 | 116 |
| 34 | Improvement of biomass properties by pretreatment with ionic liquids for bioconversion process. Bioresource Technology, 2012, 111, 453-459. | 9.6 | 109 |
| 35 | What causes the low viscosity of ether-functionalized ionic liquids? Its dependence on the increase of free volume. RSC Advances, 2012, 2, 10564. | 3.6 | 106 |
| 36 | Graphene/NiO Nanowires: Controllable One-Pot Synthesis and Enhanced Pseudocapacitive Behavior. ACS Applied Materials & Interfaces, 2014, 6, 8246-8256. | 8.0 | 106 |

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| 37 | B, N-doped ultrathin carbon nanosheet superstructure for high-performance oxygen reduction reaction in rechargeable zinc-air battery. Carbon, 2020, 164, 398-406. | 10.3 | 96 |
| 38 | Ni(OH)<sub>2</sub> Nanoflowers/Graphene Hydrogels: A New Assembly for Supercapacitors. ACS Sustainable Chemistry and Engineering, 2016, 4, 3736-3742. | 6.7 | 93 |
| 39 | Facile Synthesis of Porous Pd<sub>3</sub>Pt Halfâ€Shells with Rich â€œActive Sitesâ€• as Efficient Catalysts for Formic Acid Oxidation. Small, 2018, 14, e1703940. | 10.0 | 92 |
| 40 | Heterojunctionâ€Assisted Co<sub>3</sub>S<sub>4</sub>@Co<sub>3</sub>O<sub>4</sub> Coreâ€“Shell Octahedrons for Supercapacitors and Both Oxygen and Carbon Dioxide Reduction Reactions. Small, 2017, 13, 1701724. | 10.0 | 90 |
| 41 | Conventional and New Materials for Selective Catalytic Reduction (SCR) of NO<sub>x</sub>. ChemCatChem, 2018, 10, 1499-1511. | 3.7 | 83 |
| 42 | Robust bifunctional oxygen electrocatalyst with a â€œrigid and flexibleâ€• structure for air-cathodes. NPG Asia Materials, 2018, 10, 618-629. | 7.9 | 83 |
| 43 | One-Pot Fabrication of Hollow and Porous Pdâ€“Cu Alloy Nanospheres and Their Remarkably Improved Catalytic Performance for Hexavalent Chromium Reduction. ACS Applied Materials & Interfaces, 2016, 8, 30948-30955. | 8.0 | 82 |
| 44 | Facile synthesis of corallite-like Ptâ€“Pd alloy nanostructures and their enhanced catalytic activity and stability for ethanol oxidation. Journal of Materials Chemistry A, 2014, 2, 13840. | 10.3 | 81 |
| 45 | Grapheneâ€Based Advanced Membrane Applications in Organic Solvent Nanofiltration. Advanced Functional Materials, 2021, 31, 2006949. | 14.9 | 81 |
| 46 | Recyclability of an ionic liquid for biomass pretreatment. Bioresource Technology, 2014, 169, 336-343. | 9.6 | 79 |
| 47 | Tailoring of Metal Boride Morphology via Anion for Efficient Water Oxidation. Advanced Energy Materials, 2019, 9, 1901503. | 19.5 | 79 |
| 48 | Three-Dimensional Graphene-Supported Ni<sub>3</sub>Fe/Co<sub>9</sub>S<sub>8</sub> Composites: Rational Design and Active for Oxygen Reversible Electrocatalysis. ACS Applied Materials & Interfaces, 2019, 11, 4028-4036. | 8.0 | 79 |
| 49 | Coreâ€“shell CuPd@Pd tetrahedra with concave structures and Pd-enriched surface boost formic acid oxidation. Journal of Materials Chemistry A, 2018, 6, 10632-10638. | 10.3 | 75 |
| 50 | Toward Value-Added Dicarboxylic Acids from Biomass Derivatives via Thermocatalytic Conversion. ACS Catalysis, 2021, 11, 2524-2560. | 11.2 | 75 |
| 51 | Recent advances in rare-earth-based materials for electrocatalysis. Chem Catalysis, 2022, 2, 967-1008. | 6.1 | 75 |
| 52 | Effect of Organic Solvent in Ionic Liquid on Biomass Pretreatment. ACS Sustainable Chemistry and Engineering, 2013, 1, 894-902. | 6.7 | 71 |
| 53 | Catalytic activities for methanol oxidation on ultrathin CuPt<sub>3</sub> wavy nanowires with/without smart polymer. Chemical Science, 2016, 7, 5414-5420. | 7.4 | 71 |
| 54 | Hydrogels for Medical and Environmental Applications. Small Methods, 2020, 4, 1900735. | 8.6 | 71 |

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| 55 | Tuning the Electronic Spin State of Catalysts by Strain Control for Highly Efficient Water Electrolysis. Small Methods, 2018, 2, 1800001. | 8.6 | 70 |
| 56 | A Microribbon Hybrid Structure of CoOxâ€MoC Encapsulated in Nâ€Doped Carbon Nanowire Derived from MOF as Efficient Oxygen Evolution Electrocatalysts. Small, 2017, 13, 1702753. | 10.0 | 69 |
| 57 | Nanobelt-arrayed vanadium oxide hierarchical microspheres as catalysts for selective oxidation of 5-hydroxymethylfurfural toward 2,5-diformylfuran. Applied Catalysis B: Environmental, 2017, 207, 358-365. | 20.2 | 67 |
| 58 | Hierarchical self-assembled Bi<sub>2</sub>S<sub>3</sub> hollow nanotubes coated with sulfur-doped amorphous carbon as advanced anode materials for lithium ion batteries. Nanoscale, 2018, 10, 13343-13350. | 5.6 | 67 |
| 59 | Enhanced electrochemical performance of lithium ion batteries using Sb<sub>2</sub>S<sub>3</sub> nanorods wrapped in graphene nanosheets as anode materials. Nanoscale, 2018, 10, 3159-3165. | 5.6 | 65 |
| 60 | MOF-derived nickel and cobalt metal nanoparticles in a N-doped coral shaped carbon matrix of coconut leaf sheath origin for high performance supercapacitors and OER catalysis. Electrochimica Acta, 2018, 265, 336-347. | 5.2 | 64 |
| 61 | Interface engineering in transition metal-based heterostructures for oxygen electrocatalysis. Materials Chemistry Frontiers, 2021, 5, 1033-1059. | 5.9 | 64 |
| 62 | Electrochemical Conversion of Biomass Derived Products into High-Value Chemicals. Matter, 2020, 3, 1162-1177. | 10.0 | 63 |
| 63 | Porous PdRh nanobowls: facile synthesis and activity for alkaline ethanol oxidation. Nanoscale, 2019, 11, 2974-2980. | 5.6 | 62 |
| 64 | Graphene/acid assisted facile synthesis of structure-tuned Fe3O4 and graphene composites as anode materials for lithium ion batteries. Carbon, 2015, 86, 310-317. | 10.3 | 61 |
| 65 | Synthesis of CNT@Fe3O4-C hybrid nanocables as anode materials with enhanced electrochemical performance for lithium ion batteries. Electrochimica Acta, 2015, 176, 1332-1337. | 5.2 | 61 |
| 66 | Thermal decomposition synthesis of functionalized PdPt alloy nanodendrites with high selectivity for oxygen reduction reaction. NPG Asia Materials, 2015, 7, e219-e219. | 7.9 | 59 |
| 67 | Recent Progress of Metal Carbides Encapsulated in Carbonâ€Based Materials for Electrocatalysis of Oxygen Reduction Reaction. Small Methods, 2020, 4, 1900575. | 8.6 | 59 |
| 68 | 3D ordered porous Mo<sub>x</sub>C (x = 1 or 2) for advanced hydrogen evolution and Li storage. Nanoscale, 2017, 9, 7260-7267. | 5.6 | 58 |
| 69 | Bifunctional Sulfonated MoO<sub>3</sub>â€“ZrO<sub>2</sub> Binary Oxide Catalysts for the One-Step Synthesis of 2,5-Diformylfuran from Fructose. ACS Sustainable Chemistry and Engineering, 2018, 6, 2976-2982. | 6.7 | 57 |
| 70 | Recent Advances in Electrocatalysts for Alkaline Hydrogen Oxidation Reaction. Small, 2021, 17, e2100391. | 10.0 | 56 |
| 71 | Value-added products from thermochemical treatments of contaminated e-waste plastics. Chemosphere, 2021, 269, 129409. | 8.2 | 54 |
| 72 | Atomically Dispersed CoN<sub>4</sub>/B, N-C Nanotubes Boost Oxygen Reduction in Rechargeable Znâ€“Air Batteries. ACS Applied Energy Materials, 2020, 3, 4539-4548. | 5.1 | 53 |

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| 73 | Oneâ€Pot Transformation of Cellobiose to Formic Acid and Levulinic Acid over Ionicâ€Liquidâ€based Polyoxometalate Hybrids. ChemSusChem, 2014, 7, 2670-2677. | 6.8 | 52 |
| 74 | Green and facile synthesis of Fe<sub>3</sub>O<sub>4</sub> and graphene nanocomposites with enhanced rate capability and cycling stability for lithium ion batteries. Journal of Materials Chemistry A, 2015, 3, 16206-16212. | 10.3 | 50 |
| 75 | Ultra-small and low crystalline CoMoO<sub>4</sub> nanorods for electrochemical capacitors. Sustainable Energy and Fuels, 2017, 1, 324-335. | 4.9 | 50 |
| 76 | Two-Dimensional Cobalt/N-Doped Carbon Hybrid Structure Derived from Metalâ€“Organic Frameworks as Efficient Electrocatalysts for Hydrogen Evolution. ACS Sustainable Chemistry and Engineering, 2017, 5, 5646-5650. | 6.7 | 50 |
| 77 | Coupling orientation and mediation strategies for efficient electron transfer in hybrid biofuel cells. Nature Energy, 2018, 3, 574-581. | 39.5 | 50 |
| 78 | MoO<sub>3</sub>-Containing Protonated Nitrogen Doped Carbon as a Bifunctional Catalyst for One-Step Synthesis of 2,5-Diformylfuran from Fructose. ACS Sustainable Chemistry and Engineering, 2018, 6, 284-291. | 6.7 | 48 |
| 79 | Pd catalyst supported on a chitosan-functionalized large-area 3D reduced graphene oxide for formic acid electrooxidation reaction. Journal of Materials Chemistry A, 2013, 1, 6839. | 10.3 | 47 |
| 80 | Vanadium-embedded mesoporous carbon microspheres as effective catalysts for selective aerobic oxidation of 5-hydroxymethyl-2-furfural into 2, 5-diformylfuran. Applied Catalysis A: General, 2018, 568, 16-22. | 4.3 | 46 |
| 81 | Facile Synthesis of Hollow Mesoporous CoFe<sub>2</sub>O<sub>4</sub> Nanospheres and Graphene Composites as Highâ€Performance Anode Materials for Lithiumâ€Ion Batteries. ChemElectroChem, 2015, 2, 1010-1018. | 3.4 | 45 |
| 82 | Cu<sub>5</sub>Pt Dodecahedra with Low-Pt Content: Facile Synthesis and Outstanding Formic Acid Electrooxidation. ACS Applied Materials & Interfaces, 2019, 11, 34869-34877. | 8.0 | 43 |
| 83 | Embedded PdFe@N-carbon nanoframes for oxygen reduction in acidic fuel cells. Carbon, 2020, 164, 369-377. | 10.3 | 43 |
| 84 | Crâ€MILâ€101â€Encapsulated Keggin Phosphomolybdic Acid as a Catalyst for the Oneâ€Pot Synthesis of 2,5â€Diformylfuran from Fructose. ChemCatChem, 2017, 9, 1187-1191. | 3.7 | 42 |
| 85 | Three-Dimensional Cobalt Oxide Microstructures with Brush-like Morphology via Surfactant-Dependent Assembly. ACS Applied Materials & Interfaces, 2014, 6, 20729-20737. | 8.0 | 41 |
| 86 | Sub-5 nm palladium nanoparticlesin situembedded in N-doped carbon nanoframes: facile synthesis, excellent sinter resistance and electrocatalytic properties. Journal of Materials Chemistry A, 2019, 7, 26243-26249. | 10.3 | 40 |
| 87 | Nitrogen-Doped Carbon-Encapsulated Antimony Sulfide Nanowires Enable High Rate Capability and Cyclic Stability for Sodium-Ion Batteries. ACS Applied Nano Materials, 2019, 2, 1457-1465. | 5.0 | 40 |
| 88 | Trimetallic Au@PdPb nanowires for oxygen reduction reaction. Nano Research, 2020, 13, 2691-2696. | 10.4 | 39 |
| 89 | Conductive graphene-based E-textile for highly sensitive, breathable, and water-resistant multimodal gesture-distinguishable sensors. Journal of Materials Chemistry A, 2020, 8, 14778-14787. | 10.3 | 38 |
| 90 | Novel graphene/polyaniline/MnO<sub>x</sub>3D-hydrogels obtained by controlled morphology of MnO<sub>x</sub>in the graphene/polyaniline matrix for high performance binder-free supercapacitor electrodes. RSC Advances, 2015, 5, 94388-94396. | 3.6 | 36 |

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| 91 | 3D Graphene Hollow Nanospheres@Palladiumâ€Networks as an Efficient Electrocatalyst for Formic Acid Oxidation. Advanced Materials Interfaces, 2015, 2, 1500321. | 3.7 | 35 |
| 92 | Reduced graphene oxide with controllably intimate bifunctionality for the catalytic transformation of fructose into 2,5-diformylfuran in biphasic solvent systems. Chemical Engineering Journal, 2020, 379, 122284. | 12.7 | 33 |
| 93 | Bifunctional carbon nanoplatelets as metal-free catalysts for direct conversion of fructose to 2,5-diformylfuran. Catalysis Science and Technology, 2020, 10, 4179-4183. | 4.1 | 33 |
| 94 | Construction of 3D CoO Quantum Dots/Graphene Hydrogels as Binder-Free Electrodes for Ultra-high Rate Energy Storage Applications. Electrochimica Acta, 2017, 243, 152-161. | 5.2 | 32 |
| 95 | Hollow and porous palladium nanocrystals: synthesis and electrocatalytic application. Journal of Materials Chemistry A, 2015, 3, 21995-21999. | 10.3 | 31 |
| 96 | 3D Robust Carbon Aerogels Immobilized with Pd<sub>3</sub>Pb Nanoparticles for Oxygen Reduction Catalysis. ACS Applied Nano Materials, 2018, 1, 1904-1911. | 5.0 | 29 |
| 97 | The influence of cations intercalated in graphene oxide membranes in tuning H2/CO2 separation performance. Separation and Purification Technology, 2020, 246, 116933. | 7.9 | 29 |
| 98 | Polyethyleneimine-assisted synthesis of high-quality platinum/graphene hybrids: the effect of molecular weight on electrochemical properties. Journal of Materials Chemistry A, 2015, 3, 12000-12004. | 10.3 | 28 |
| 99 | Synthesis of Porous Pd Nanostructure and Its Application in Enzyme-Free Sensor of Hydrogen Peroxide. ACS Sustainable Chemistry and Engineering, 2017, 5, 1248-1252. | 6.7 | 26 |
| 100 | Synthesis of 3D mesoporous samarium oxide hydrangea microspheres for enzyme-free sensor of hydrogen peroxide. Electrochimica Acta, 2016, 208, 231-237. | 5.2 | 25 |
| 101 | Fabrication of a mesoporous Co(OH)2/ITO nanowire composite electrode and its application in supercapacitors. RSC Advances, 2012, 2, 10512. | 3.6 | 24 |
| 102 | Linkage Effect in the Heterogenization of Cobalt Complexes by Doped Graphene for Electrocatalytic CO<sub>2</sub> Reduction. Angewandte Chemie, 2019, 131, 13666-13673. | 2.0 | 24 |
| 103 | Atomic-thin hexagonal CuCo nanocrystals with d-band tuning for CO<sub>2</sub> reduction. Journal of Materials Chemistry A, 2021, 9, 7496-7502. | 10.3 | 24 |
| 104 | Influence of organic solvent on the separation of an ionic liquid from a ligninâ€“ionic liquid mixture. Bioresource Technology, 2014, 156, 404-407. | 9.6 | 23 |
| 105 | Selective catalytic reduction of NOx in marine engine exhaust gas over supported transition metal oxide catalysts. Chemical Engineering Journal, 2021, 414, 128794. | 12.7 | 23 |
| 106 | Ultrathin CuNi Nanosheets for CO<sub>2</sub> Reduction and O<sub>2</sub> Reduction Reaction in Fuel Cells. , 2021, 3, 1143-1150. | | 23 |
| 107 | Polyanilineâ€Coated Hollow Fe<sub>2</sub>O<sub>3</sub> Nanoellipsoids as an Anode Material for Highâ€Performance Lithiumâ€Ion Batteries. ChemElectroChem, 2015, 2, 503-507. | 3.4 | 22 |
| 108 | Bimetal/Metal Oxide Encapsulated in Graphitic Nitrogen Doped Mesoporous Carbon Networks for Enhanced Oxygen Electrocatalysis. ChemElectroChem, 2019, 6, 1485-1491. | 3.4 | 22 |

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| 109 | Molecular porphyrinic freestanding buckypaper electrodes from carbon nanotubes for glucose fuel cells. Journal of Materials Chemistry A, 2017, 5, 8927-8932. | 10.3 | 21 |
| 110 | Surface-Modified Hollow Ternary NiCo<sub>2</sub>P<sub>x</sub> Catalysts for Efficient Electrochemical Water Splitting and Energy Storage. ACS Applied Materials & Interfaces, 2019, 11, 39798-39808. | 8.0 | 21 |
| 111 | Recent progress on transition metal diselenides from formation and modification to applications. Nanoscale, 2022, 14, 1075-1095. | 5.6 | 21 |
| 112 | Effects of solubility properties of solvents and biomass on biomass pretreatment. Bioresource Technology, 2014, 170, 160-166. | 9.6 | 17 |
| 113 | Clarifying the in-situ cytotoxic potential of electronic waste plastics. Chemosphere, 2021, 269, 128719. | 8.2 | 17 |
| 114 | A heterostructure of layered double hydroxide wrapped in few-layer carbon with iridium doping for efficient oxygen evolution. Electrochimica Acta, 2019, 296, 590-597. | 5.2 | 16 |
| 115 | Hydrothermally driven three-dimensional evolution of mesoporous hierarchical europium oxide hydrangea microspheres for non-enzymatic sensors of hydrogen peroxide detection. Environmental Science: Nano, 2016, 3, 701-706. | 4.3 | 15 |
| 116 | Halideâ€ionâ€Assisted Synthesis of Different Î±â€Fe<sub>2</sub>O<sub>3</sub> Hollow Structures and Their Lithiumâ€ion Storage Properties. ChemPlusChem, 2015, 80, 522-528. | 2.8 | 14 |
| 117 | A Coconut Leaf Sheath Derived Graphitized Nâ€Doped Carbon Network for Highâ€Performance Supercapacitors. ChemElectroChem, 2018, 5, 284-291. | 3.4 | 14 |
| 118 | Hierarchically Constructed ZnO/Co<sub>3</sub>O<sub>4</sub> Nanoheterostructures Synergizing Dendrite Inhibition and Polysulfide Conversion in Lithiumâ€“Sulfur Battery. , 2022, 4, 1358-1367. | | 14 |
| 119 | Small Size Rh Nanoparticles in Micelle Nanostructure by Ionic Liquid/CTAB for Acceptorless Dehydrogenation of Alcohols Only in Pure Water. ACS Sustainable Chemistry and Engineering, 2017, 5, 2056-2060. | 6.7 | 13 |
| 120 | Extracellular protein isolation from the matrix of anammox biofilm using ionic liquid extraction. Applied Microbiology and Biotechnology, 2020, 104, 3643-3654. | 3.6 | 13 |
| 121 | Fabricating 3D Macroscopic Graphene-Based Architectures with Outstanding Flexibility by the Novel Liquid Drop/Colloid Flocculation Approach for Energy Storage Applications. ACS Applied Materials & Interfaces, 2018, 10, 21991-22001. | 8.0 | 12 |
| 122 | A Review on the Critical Role of H<sub>2</sub> Donor in the Selective Hydrogenation of 5â€Hydroxymethylfurfural. ChemSusChem, 2022, 15, . | 6.8 | 12 |
| 123 | Heterostructure-Induced Light Absorption and Charge-Transfer Optimization of a TiO<sub>2</sub> Photoanode for Photoelectrochemical Water Splitting. ACS Applied Energy Materials, 2021, 4, 14440-14446. | 5.1 | 12 |
| 124 | Catalytic pyrolysis of film waste over Co/Ni pillared montmorillonites towards H2 production. Chemosphere, 2022, 299, 134440. | 8.2 | 11 |
| 125 | Recent Advances in Reductive Upgrading of 5â€Hydroxymethylfurfural via Heterogeneous Thermocatalysis. ChemSusChem, 2022, 15, . | 6.8 | 11 |
| 126 | Solvent optimization for bacterial extracellular matrices: a solution for the insoluble. RSC Advances, 2015, 5, 7469-7478. | 3.6 | 10 |

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| 127 | Self-assembly synthesis of reduced graphene oxide-supported platinum nanowire composites with enhanced electrocatalytic activity towards the hydrazine oxidation reaction. Catalysis Science and Technology, 2016, 6, 3143-3148. | 4.1 | 10 |
| 128 | Effects of electrostatic interaction on the properties of ionic liquids correlated with the change of free volume. Physical Chemistry Chemical Physics, 2017, 19, 5389-5395. | 2.8 | 10 |
| 129 | In situ bubble template-assisted synthesis of phosphonate-functionalized Rh nanodendrites and their catalytic application. CrystEngComm, 2017, 19, 2946-2952. | 2.6 | 10 |
| 130 | On-line spectroscopic study of brominated flame retardant extraction in supercritical CO2. Chemosphere, 2021, 263, 128282. | 8.2 | 10 |
| 131 | Design and Integration of Molecularâ€Type Catalysts in Fuelâ€Cell Technology. Small Methods, 2018, 2, 1800059. | 8.6 | 9 |
| 132 | A Facile Selfâ€Templated Approach for the Synthesis of Pt Hollow Nanospheres with Enhanced Electrocatalytic Activity. Advanced Materials Interfaces, 2016, 3, 1600563. | 3.7 | 8 |
| 133 | Controlled Synthesis of 3D Nanoplateâ€Assembled La<sub>2</sub>O<sub>3</sub> Hierarchical Microspheres for Enzymeâ€Free Detection of Hydrogen Peroxide. Advanced Materials Interfaces, 2016, 3, 1500833. | 3.7 | 8 |
| 134 | Hierarchical Gadolinium Oxide Microspheres for Enzymeless Electroâ€biosensors in Hydrogen Peroxide Dynamic Detection. ChemElectroChem, 2017, 4, 272-277. | 3.4 | 8 |
| 135 | A Reactive Template Synthesis of Hierarchical Porous Carbon and Its Application to Supercapacitor Electrodes. Macromolecular Materials and Engineering, 2020, 305, 2000168. | 3.6 | 8 |
| 136 | A hydrogen/oxygen hybrid biofuel cell comprising an electrocatalytically active nanoflower/laccase-based biocathode. Catalysis Science and Technology, 2020, 10, 6235-6243. | 4.1 | 8 |
| 137 | Preparation of Mesoporous Dysprosium Oxide for Dynamic Hydrogen Peroxide Detection without Enzymes. ChemElectroChem, 2017, 4, 96-101. | 3.4 | 7 |
| 138 | Direct reuse of electronic plastic scraps from computer monitor and keyboard to direct stem cell growth and differentiation. Science of the Total Environment, 2022, 807, 151085. | 8.0 | 7 |
| 139 | Activated recovery of PVC from contaminated waste extension cord-cable using a weak acid. Chemosphere, 2022, 303, 134878. | 8.2 | 7 |
| 140 | Estimation of the free energy of hard-sphere crystals via a free-volume approach. Molecular Simulation, 2012, 38, 16-22. | 2.0 | 6 |
| 141 | Polymer-assisted formation of 3D Pd nanoassemblies: highly active catalysts for formic acid electrooxidation. Sustainable Energy and Fuels, 2017, 1, 450-457. | 4.9 | 6 |
| 142 | Machine learning-assisted optimization of TBBPA-bis-(2,3-dibromopropyl ether) extraction process from ABS polymer. Chemosphere, 2022, 287, 132128. | 8.2 | 6 |
| 143 | The facile ionic liquid-assisted synthesis of hollow and porous platinum nanotubes with enhanced catalytic performances. RSC Advances, 2016, 6, 67290-67294. | 3.6 | 5 |
| 144 | Oneâ€Step Electrodeposition of Polyallylamineâ€Functionalized Gold Nanodendrites and Their Application in Sensing. ChemPlusChem, 2015, 80, 1148-1152. | 2.8 | 4 |

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| 145 | Self-Supported Feâ€“Nâ€“C Electrocatalyst via Pyrolysis of EDTAFeNa Adsorbed on SBA-15 for the Oxygen Reduction Reaction. Industrial & Engineering Chemistry Research, 2020, 59, 3016-3023. | 3.7 | 4 |
| 146 | ChemElectroChem: Beyond Lithiumâ€ion Batteries. ChemElectroChem, 2021, 8, 1149-1149. | 3.4 | 4 |
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