# Jong-Min Lee

## List of Publications by Year in Descending Order



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|---|---|---|---|
| 146 papers | 7,571 citations | 52 h-index | 83 g-index |
| 151 ext. papers | 9,931 ext. citations | 10.4 avg, IF | 7.15 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 146 | Recent progress on transition metal diselenides from formation and modification to applications.. *Nanoscale*, **2022**, | 7.7 | 6 |
| 145 | Machine learning-assisted optimization of TBBPA-bis-(2,3-dibromopropyl ether) extraction process from ABS polymer. *Chemosphere*, **2022**, 287, 132128 | 8.4 | 0 |
| 144 | Recent advances in rare-earth-based materials for electrocatalysis. *Chem Catalysis*, **2022**, | | 10 |
| 143 | Interstitial boron-triggered electron-deficient Os aerogels for enhanced pH-universal hydrogen evolution.. *Nature Communications*, **2022**, 13, 1143 | 17.4 | 16 |
| 142 | Catalytic pyrolysis of film waste over Co/Ni pillared montmorillonites towards H production.. *Chemosphere*, **2022**, 134440 | 8.4 | 0 |
| 141 | Activated recovery of PVC from contaminated waste extension cord-cable using a weak acid.. *Chemosphere*, **2022**, 134878 | 8.4 | 1 |
| 140 | Direct reuse of electronic plastic scraps from computer monitor and keyboard to direct stem cell growth and differentiation. *Science of the Total Environment*, **2021**, 807, 151085 | 10.2 | 0 |
| 139 | Highly Efficient Oxygen Reduction Reaction Activity of N-Doped Carbon□Cobalt Boride Heterointerfaces. *Advanced Energy Materials*, **2021**, 11, 2100157 | 21.8 | 72 |
| 138 | Value-added products from thermochemical treatments of contaminated e-waste plastics. *Chemosphere*, **2021**, 269, 129409 | 8.4 | 19 |
| 137 | Electronic Modulation of Non-van der Waals 2D Electrocatalysts for Efficient Energy Conversion. *Advanced Materials*, **2021**, 33, e2008422 | 24 | 68 |
| 136 | Recent Advances in Electrocatalysts for Alkaline Hydrogen Oxidation Reaction. *Small*, **2021**, 17, e2100391 | 11 | 13 |
| 135 | Selective catalytic reduction of NOx in marine engine exhaust gas over supported transition metal oxide catalysts. *Chemical Engineering Journal*, **2021**, 414, 128794 | 14.7 | 11 |
| 134 | Interface engineering in transition metal-based heterostructures for oxygen electrocatalysis. *Materials Chemistry Frontiers*, **2021**, 5, 1033-1059 | 7.8 | 29 |
| 133 | Modulation of Single Atomic Co and Fe Sites on Hollow Carbon Nanospheres as Oxygen Electrodes for Rechargeable Zn-Air Batteries.. *Small Methods*, **2021**, 5, e2000751 | 12.8 | 75 |
| 132 | Clarifying the in-situ cytotoxic potential of electronic waste plastics. *Chemosphere*, **2021**, 269, 128719 | 8.4 | 4 |
| 131 | Graphene-Based Advanced Membrane Applications in Organic Solvent Nanofiltration. *Advanced Functional Materials*, **2021**, 31, 2006949 | 15.6 | 29 |
| 130 | Metallenes as functional materials in electrocatalysis. *Chemical Society Reviews*, **2021**, 50, 6700-6719 | 58.5 | 86 |

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| 129 | Atomic-thin hexagonal CuCo nanocrystals with d-band tuning for CO2 reduction. *Journal of Materials Chemistry A*, **2021**, 9, 7496-7502 | 13 | 11 |
| 128 | On-line spectroscopic study of brominated flame retardant extraction in supercritical CO. *Chemosphere*, **2021**, 263, 128282 | 8.4 | 3 |
| 127 | Electrocatalytic dimeric inactivation mechanism by a porphyrinic molecular-type catalyst: integration in a glucose/O2 fuel cell. *Catalysis Science and Technology*, **2021**, 11, 1931-1939 | 5.5 | |
| 126 | Toward Value-Added Dicarboxylic Acids from Biomass Derivatives via Thermocatalytic Conversion. *ACS Catalysis*, **2021**, 11, 2524-2560 | 13.1 | 24 |
| 125 | Ultrathin CuNi Nanosheets for CO2 Reduction and O2 Reduction Reaction in Fuel Cells **2021**, 3, 1143-1150 | | 6 |
| 124 | Gd-induced electronic structure engineering of a NiFe-layered double hydroxide for efficient oxygen evolution. *Journal of Materials Chemistry A*, **2021**, 9, 2999-3006 | 13 | 44 |
| 123 | Transition metal nitrides for electrochemical energy applications. *Chemical Society Reviews*, **2021**, 50, 1354-1390 | 58.5 | 207 |
| 122 | Heterostructure-Induced Light Absorption and Charge-Transfer Optimization of a TiO2 Photoanode for Photoelectrochemical Water Splitting. *ACS Applied Energy Materials*, **2021**, 4, 14440-14446 | 6.1 | 1 |
| 121 | Atomically Dispersed CoN4/B, N-C Nanotubes Boost Oxygen Reduction in Rechargeable Zn-Air Batteries. *ACS Applied Energy Materials*, **2020**, 3, 4539-4548 | 6.1 | 27 |
| 120 | Recent advances in structural engineering of MXene electrocatalysts. *Journal of Materials Chemistry A*, **2020**, 8, 10604-10624 | 13 | 94 |
| 119 | The influence of cations intercalated in graphene oxide membranes in tuning H2/CO2 separation performance. *Separation and Purification Technology*, **2020**, 246, 116933 | 8.3 | 15 |
| 118 | Bifunctional carbon nanoplatelets as metal-free catalysts for direct conversion of fructose to 2,5-diformylfuran. *Catalysis Science and Technology*, **2020**, 10, 4179-4183 | 5.5 | 18 |
| 117 | Confined growth of pyridinic N-Mo2C sites on MXenes for hydrogen evolution. *Journal of Materials Chemistry A*, **2020**, 8, 7109-7116 | 13 | 78 |
| 116 | Heterostructured Catalysts for Electrocatalytic and Photocatalytic Carbon Dioxide Reduction. *Advanced Functional Materials*, **2020**, 30, 1910768 | 15.6 | 105 |
| 115 | Design Strategies for Development of TMD-Based Heterostructures in Electrochemical Energy Systems. *Matter*, **2020**, 2, 526-553 | 12.7 | 160 |
| 114 | Trimetallic Au@PdPb nanowires for oxygen reduction reaction. *Nano Research*, **2020**, 13, 2691-2696 | 10 | 21 |
| 113 | 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 | 13 | 20 |
| 112 | Extracellular protein isolation from the matrix of anammox biofilm using ionic liquid extraction. *Applied Microbiology and Biotechnology*, **2020**, 104, 3643-3654 | 5.7 | 7 |

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| 111 | Self-Supported FeNC Electrocatalyst via Pyrolysis of EDTAFeNa Adsorbed on SBA-15 for the Oxygen Reduction Reaction. *Industrial & Engineering Chemistry Research*, **2020**, 59, 3016-3023 | 3.9 | 2 |
| 110 | Embedded PdFe@N-carbon nanoframes for oxygen reduction in acidic fuel cells. *Carbon*, **2020**, 164, 369-377 | 10.4 | 28 |
| 109 | B, N-doped ultrathin carbon nanosheet superstructure for high-performance oxygen reduction reaction in rechargeable zinc-air battery. *Carbon*, **2020**, 164, 398-406 | 10.4 | 55 |
| 108 | Hydrogels for Medical and Environmental Applications. *Small Methods*, **2020**, 4, 1900735 | 12.8 | 34 |
| 107 | Recent Progress of Metal Carbides Encapsulated in Carbon-Based Materials for Electrocatalysis of Oxygen Reduction Reaction. *Small Methods*, **2020**, 4, 1900575 | 12.8 | 41 |
| 106 | Electrochemical Conversion of Biomass Derived Products into High-Value Chemicals. *Matter*, **2020**, 3, 1162-1177 | 12.7 | 23 |
| 105 | A Reactive Template Synthesis of Hierarchical Porous Carbon and Its Application to Supercapacitor Electrodes. *Macromolecular Materials and Engineering*, **2020**, 305, 2000168 | 3.9 | 3 |
| 104 | Co-Induced Electronic Optimization of Hierarchical NiFe LDH for Oxygen Evolution. *Small*, **2020**, 16, e2002426 | 12 | 87 |
| 103 | A hydrogen/oxygen hybrid biofuel cell comprising an electrocatalytically active nanoflower/laccase-based biocathode. *Catalysis Science and Technology*, **2020**, 10, 6235-6243 | 5.5 | 4 |
| 102 | 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 | 14.7 | 20 |
| 101 | CuPt Dodecahedra with Low-Pt Content: Facile Synthesis and Outstanding Formic Acid Electrooxidation. *ACS Applied Materials & Interfaces*, **2019**, 11, 34869-34877 | 9.5 | 30 |
| 100 | Porous PdRh nanobowls: facile synthesis and activity for alkaline ethanol oxidation. *Nanoscale*, **2019**, 11, 2974-2980 | 7.7 | 44 |
| 99 | Carbon-based hydrogels: synthesis and their recent energy applications. *Journal of Materials Chemistry A*, **2019**, 7, 15491-15518 | 13 | 72 |
| 98 | Tailoring of Metal Boride Morphology via Anion for Efficient Water Oxidation. *Advanced Energy Materials*, **2019**, 9, 1901503 | 21.8 | 54 |
| 97 | Hierarchically Porous Co/Co M (M = P, N) as an Efficient Mott-Schottky Electrocatalyst for Oxygen Evolution in Rechargeable Zn-Air Batteries. *Small*, **2019**, 15, e1901518 | 11 | 108 |
| 96 | Superior Oxygen Electrocatalysis on Nickel Indium Thiospinels for Rechargeable Zn-Air Batteries **2019**, 1, 123-131 | | 135 |
| 95 | Recent Trends, Benchmarking, and Challenges of Electrochemical Reduction of CO2 by Molecular Catalysts. *Advanced Energy Materials*, **2019**, 9, 1900090 | 21.8 | 91 |
| 94 | 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 | 5.6 | 32 |

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| 93 | Hydrogenase-Like Electrocatalytic Activation and Inactivation Mechanism by Three-Dimensional Binderless Molecular Catalyst. *ACS Applied Energy Materials*, **2019**, 2, 3352-3362 | 6.1 | 3 |
| 92 | Ternary metal sulfides for electrocatalytic energy conversion. *Journal of Materials Chemistry A*, **2019**, 7, 9386-9405 | 13 | 135 |
| 91 | Linkage Effect in the Heterogenization of Cobalt Complexes by Doped Graphene for Electrocatalytic CO Reduction. *Angewandte Chemie - International Edition*, **2019**, 58, 13532-13539 | 16.4 | 84 |
| 90 | Linkage Effect in the Heterogenization of Cobalt Complexes by Doped Graphene for Electrocatalytic CO2 Reduction. *Angewandte Chemie*, **2019**, 131, 13666-13673 | 3.6 | 17 |
| 89 | Surface-Modified Hollow Ternary NiCoP Catalysts for Efficient Electrochemical Water Splitting and Energy Storage. *ACS Applied Materials & Interfaces*, **2019**, 11, 39798-39808 | 9.5 | 13 |
| 88 | Sub-5 nm palladium nanoparticles in situ embedded in N-doped carbon nanoframes: facile synthesis, excellent sinter resistance and electrocatalytic properties. *Journal of Materials Chemistry A*, **2019**, 7, 26243-26249 | 13 | 25 |
| 87 | Structural and Electronic Optimization of MoS Edges for Hydrogen Evolution. *Journal of the American Chemical Society*, **2019**, 141, 18578-18584 | 16.4 | 150 |
| 86 | Bimetal/Metal Oxide Encapsulated in Graphitic Nitrogen Doped Mesoporous Carbon Networks for Enhanced Oxygen Electrocatalysis. *ChemElectroChem*, **2019**, 6, 1485-1491 | 4.3 | 16 |
| 85 | Alveolate porous carbon aerogels supported Co9S8 derived from a novel hybrid hydrogel for bifunctional oxygen electrocatalysis. *Carbon*, **2019**, 144, 557-566 | 10.4 | 109 |
| 84 | A heterostructure of layered double hydroxide wrapped in few-layer carbon with iridium doping for efficient oxygen evolution. *Electrochimica Acta*, **2019**, 296, 590-597 | 6.7 | 9 |
| 83 | Three-Dimensional Graphene-Supported NiFe/CoS Composites: Rational Design and Active for Oxygen Reversible Electrocatalysis. *ACS Applied Materials & Interfaces*, **2019**, 11, 4028-4036 | 9.5 | 60 |
| 82 | 3D Robust Carbon Aerogels Immobilized with Pd3Pb Nanoparticles for Oxygen Reduction Catalysis. *ACS Applied Nano Materials*, **2018**, 1, 1904-1911 | 5.6 | 23 |
| 81 | Recent Advances in Carbon-Based Bifunctional Oxygen Electrocatalysts for Zn□Air Batteries. *ChemElectroChem*, **2018**, 5, 1424-1434 | 4.3 | 102 |
| 80 | Tuning the Electronic Spin State of Catalysts by Strain Control for Highly Efficient Water Electrolysis. *Small Methods*, **2018**, 2, 1800001 | 12.8 | 41 |
| 79 | 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 | 6.7 | 48 |
| 78 | Facile Synthesis of Porous Pd Pt Half-Shells with Rich "Active Sites" as Efficient Catalysts for Formic Acid Oxidation. *Small*, **2018**, 14, e1703940 | 11 | 73 |
| 77 | Enhanced electrochemical performance of lithium ion batteries using SbS nanorods wrapped in graphene nanosheets as anode materials. *Nanoscale*, **2018**, 10, 3159-3165 | 7.7 | 52 |
| 76 | Bifunctional Sulfonated MoO3□ZrO2 Binary Oxide Catalysts for the One-Step Synthesis of 2,5-Diformylfuran from Fructose. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 2976-2982 | 8.3 | 41 |

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| 75 | Conventional and New Materials for Selective Catalytic Reduction (SCR) of NOx. *ChemCatChem*, **2018**, 10, 1499-1511 | 5.2 | 50 |
| 74 | Design and Integration of Molecular-Type Catalysts in Fuel-Cell Technology. *Small Methods*, **2018**, 2, 1800059 | 12.9 | 8 |
| 73 | Robust bifunctional oxygen electrocatalyst with a rigid and flexible structure for air-cathodes. *NPG Asia Materials*, **2018**, 10, 618-629 | 10.3 | 72 |
| 72 | Hierarchical self-assembled BiS hollow nanotubes coated with sulfur-doped amorphous carbon as advanced anode materials for lithium ion batteries. *Nanoscale*, **2018**, 10, 13343-13350 | 7.7 | 46 |
| 71 | Coupling orientation and mediation strategies for efficient electron transfer in hybrid biofuel cells. *Nature Energy*, **2018**, 3, 574-581 | 62.3 | 42 |
| 70 | Boosting Bifunctional Oxygen Electrocatalysis with 3D Graphene Aerogel-Supported Ni/MnO Particles. *Advanced Materials*, **2018**, 30, 1704609 | 24 | 389 |
| 69 | A Coconut Leaf Sheath Derived Graphitized N-Doped Carbon Network for High-Performance Supercapacitors. *ChemElectroChem*, **2018**, 5, 284-291 | 4.3 | 11 |
| 68 | MoO3-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 | 8.3 | 37 |
| 67 | Robust N-doped carbon aerogels strongly coupled with iron-cobalt particles as efficient bifunctional catalysts for rechargeable Zn-air batteries. *Nanoscale*, **2018**, 10, 19937-19944 | 7.7 | 108 |
| 66 | 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 | 5.1 | 30 |
| 65 | Exploring Indium-Based Ternary Thiospinel as Conceivable High-Potential Air-Cathode for Rechargeable Zn Air Batteries. *Advanced Energy Materials*, **2018**, 8, 1802263 | 21.8 | 164 |
| 64 | Core shell CuPd@Pd tetrahedra with concave structures and Pd-enriched surface boost formic acid oxidation. *Journal of Materials Chemistry A*, **2018**, 6, 10632-10638 | 13 | 60 |
| 63 | 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 | 9.5 | 11 |
| 62 | Ultra-small and low crystalline CoMoO4 nanorods for electrochemical capacitors. *Sustainable Energy and Fuels*, **2017**, 1, 324-335 | 5.8 | 39 |
| 61 | MOF-Derived Hollow Cage Ni Co O and Their Synergy with Graphene for Outstanding Supercapacitors. *Small*, **2017**, 13, 1603102 | 11 | 176 |
| 60 | Synthesis of Porous Pd Nanostructure and Its Application in Enzyme-Free Sensor of Hydrogen Peroxide. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 1248-1252 | 8.3 | 17 |
| 59 | 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 | 3.6 | 8 |
| 58 | 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 | 21.8 | 47 |

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| 57 | 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 | 8.3 | 10 |
| 56 | 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 | 6.7 | 28 |
| 55 | Molecular porphyrinic freestanding buckypaper electrodes from carbon nanotubes for glucose fuel cells. *Journal of Materials Chemistry A*, **2017**, 5, 8927-8932 | 13 | 19 |
| 54 | In situ bubble template-assisted synthesis of phosphonate-functionalized Rh nanodendrites and their catalytic application. *CrystEngComm*, **2017**, 19, 2946-2952 | 3.3 | 8 |
| 53 | Hierarchical Gadolinium Oxide Microspheres for Enzymeless Electro-biosensors in Hydrogen Peroxide Dynamic Detection. *ChemElectroChem*, **2017**, 4, 272-277 | 4.3 | 6 |
| 52 | 3D ordered porous MoC (x = 1 or 2) for advanced hydrogen evolution and Li storage. *Nanoscale*, **2017**, 9, 7260-7267 | 7.7 | 48 |
| 51 | Two-Dimensional Cobalt/N-Doped Carbon Hybrid Structure Derived from Metal□Organic Frameworks as Efficient Electrocatalysts for Hydrogen Evolution. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 5646-5650 | 8.3 | 38 |
| 50 | Polymer-assisted formation of 3D Pd nanoassemblies: highly active catalysts for formic acid electrooxidation. *Sustainable Energy and Fuels*, **2017**, 1, 450-457 | 5.8 | 5 |
| 49 | Cr-MIL-101-Encapsulated Keggin Phosphomolybdic Acid as a Catalyst for the One-Pot Synthesis of 2,5-Diformylfuran from Fructose. *ChemCatChem*, **2017**, 9, 1187-1191 | 5.2 | 27 |
| 48 | Polyallylamine-Functionalized Platinum Tripods: Enhancement of Hydrogen Evolution Reaction by Proton Carriers. *ACS Catalysis*, **2017**, 7, 452-458 | 13.1 | 125 |
| 47 | Polyethyleneimine functionalized platinum superstructures: enhancing hydrogen evolution performance by morphological and interfacial control. *Chemical Science*, **2017**, 8, 8411-8418 | 9.4 | 101 |
| 46 | Heterojunction-Assisted Co S @Co O Core-Shell Octahedrons for Supercapacitors and Both Oxygen and Carbon Dioxide Reduction Reactions. *Small*, **2017**, 13, 1701724 | 11 | 68 |
| 45 | A Microribbon Hybrid Structure of CoOx-MoC Encapsulated in N-Doped Carbon Nanowire Derived from MOF as Efficient Oxygen Evolution Electrocatalysts. *Small*, **2017**, 13, 1702753 | 11 | 56 |
| 44 | Preparation of Mesoporous Dysprosium Oxide for Dynamic Hydrogen Peroxide Detection without Enzymes. *ChemElectroChem*, **2017**, 4, 96-101 | 4.3 | 7 |
| 43 | The facile ionic liquid-assisted synthesis of hollow and porous platinum nanotubes with enhanced catalytic performances. *RSC Advances*, **2016**, 6, 67290-67294 | 3.7 | 4 |
| 42 | A Facile Self-Templated Approach for the Synthesis of Pt Hollow Nanospheres with Enhanced Electrocatalytic Activity. *Advanced Materials Interfaces*, **2016**, 3, 1600563 | 4.6 | 7 |
| 41 | Hollow silica nanostructures with small size Au nanoparticles for catalytic applications. *RSC Advances*, **2016**, 6, 89057-89060 | 3.7 | 1 |
| 40 | One-Pot Fabrication of Hollow and Porous Pd-Cu Alloy Nanospheres and Their Remarkably Improved Catalytic Performance for Hexavalent Chromium Reduction. *ACS Applied Materials & Interfaces*, **2016**, 8, 30948-30955 | 9.5 | 66 |

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| 39 | Controlled Synthesis of 3D Nanoplate-Assembled La2O3 Hierarchical Microspheres for Enzyme-Free Detection of Hydrogen Peroxide. *Advanced Materials Interfaces*, **2016**, 3, 1500833 | 4.6 | 8 |
| 38 | Ni(OH)2 Nanoflowers/Graphene Hydrogels: A New Assembly for Supercapacitors. *ACS Sustainable Chemistry and Engineering*, **2016**, 4, 3736-3742 | 8.3 | 77 |
| 37 | High performance asymmetric supercapacitors: New NiOOH nanosheet/graphene hydrogels and pure graphene hydrogels. *Nano Energy*, **2016**, 19, 210-221 | 17.1 | 222 |
| 36 | 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 | 5.5 | 9 |
| 35 | 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 | 7.1 | 14 |
| 34 | Morphological and Interfacial Control of Platinum Nanostructures for Electrocatalytic Oxygen Reduction. *ACS Catalysis*, **2016**, 6, 5260-5267 | 13.1 | 100 |
| 33 | Catalytic activities for methanol oxidation on ultrathin CuPt wavy nanowires with/without smart polymer. *Chemical Science*, **2016**, 7, 5414-5420 | 9.4 | 65 |
| 32 | Synthesis of 3D mesoporous samarium oxide hydrangea microspheres for enzyme-free sensor of hydrogen peroxide. *Electrochimica Acta*, **2016**, 208, 231-237 | 6.7 | 23 |
| 31 | 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 | 13 | 24 |
| 30 | Green and facile synthesis of Fe3O4 and graphene nanocomposites with enhanced rate capability and cycling stability for lithium ion batteries. *Journal of Materials Chemistry A*, **2015**, 3, 16206-16212 | 13 | 47 |
| 29 | Facile Synthesis of Hollow Mesoporous CoFe2O4 Nanospheres and Graphene Composites as High-Performance Anode Materials for Lithium-Ion Batteries. *ChemElectroChem*, **2015**, 2, 1010-1018 | 4.3 | 43 |
| 28 | One-Step Electrodeposition of Polyallylamine-Functionalized Gold Nanodendrites and Their Application in Sensing. *ChemPlusChem*, **2015**, 80, 1148-1152 | 2.8 | 4 |
| 27 | Novel graphene/polyaniline/MnOx 3D-hydrogels obtained by controlled morphology of MnOx in the graphene/polyaniline matrix for high performance binder-free supercapacitor electrodes. *RSC Advances*, **2015**, 5, 94388-94396 | 3.7 | 33 |
| 26 | Hollow and porous palladium nanocrystals: synthesis and electrocatalytic application. *Journal of Materials Chemistry A*, **2015**, 3, 21995-21999 | 13 | 29 |
| 25 | Synthesis of CNT@Fe3O4-C hybrid nanocables as anode materials with enhanced electrochemical performance for lithium ion batteries. *Electrochimica Acta*, **2015**, 176, 1332-1337 | 6.7 | 52 |
| 24 | Halide-Ion-Assisted Synthesis of Different ⊞Fe O Hollow Structures and Their Lithium-Ion Storage Properties. *ChemPlusChem*, **2015**, 80, 522-528 | 2.8 | 14 |
| 23 | 3D Graphene Hollow Nanospheres@Palladium-Networks as an Efficient Electrocatalyst for Formic Acid Oxidation. *Advanced Materials Interfaces*, **2015**, 2, 1500321 | 4.6 | 32 |
| 22 | Thermal decomposition synthesis of functionalized PdPt alloy nanodendrites with high selectivity for oxygen reduction reaction. *NPG Asia Materials*, **2015**, 7, e219-e219 | 10.3 | 55 |

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|---|---|---|---|
| 21 | Graphene/acid assisted facile synthesis of structure-tuned Fe3O4 and graphene composites as anode materials for lithium ion batteries. *Carbon*, **2015**, 86, 310-317 | 10.4 | 57 |
| 20 | Trimetallic PtAgCu@PtCu core@shell concave nanooctahedrons with enhanced activity for formic acid oxidation reaction. *Nano Energy*, **2015**, 12, 824-832 | 17.1 | 111 |
| 19 | Solvent optimization for bacterial extracellular matrices: a solution for the insoluble. *RSC Advances*, **2015**, 5, 7469-7478 | 3.7 | 10 |
| 18 | Polyaniline-Coated Hollow Fe2O3 Nanoellipsoids as an Anode Material for High-Performance Lithium-Ion Batteries. *ChemElectroChem*, **2015**, 2, 503-507 | 4.3 | 15 |
| 17 | Influence of organic solvent on the separation of an ionic liquid from a lignin-ionic liquid mixture. *Bioresource Technology*, **2014**, 156, 404-7 | 11 | 18 |
| 16 | A review on the electrochemical reduction of CO2 in fuel cells, metal electrodes and molecular catalysts. *Catalysis Today*, **2014**, 233, 169-180 | 5.3 | 340 |
| 15 | Novel synthesis of high performance anode materials for lithium-ion batteries (LIBs). *Journal of Materials Chemistry A*, **2014**, 2, 1589-1626 | 13 | 107 |
| 14 | Facile synthesis of corallite-like PtPd alloy nanostructures and their enhanced catalytic activity and stability for ethanol oxidation. *Journal of Materials Chemistry A*, **2014**, 2, 13840 | 13 | 66 |
| 13 | Graphene/NiO nanowires: controllable one-pot synthesis and enhanced pseudocapacitive behavior. *ACS Applied Materials & Interfaces*, **2014**, 6, 8246-56 | 9.5 | 94 |
| 12 | Effects of solubility properties of solvents and biomass on biomass pretreatment. *Bioresource Technology*, **2014**, 170, 160-166 | 11 | 15 |
| 11 | One-pot transformation of cellobiose to formic acid and levulinic acid over ionic-liquid-based polyoxometalate hybrids. *ChemSusChem*, **2014**, 7, 2670-7 | 8.3 | 41 |
| 10 | Recyclability of an ionic liquid for biomass pretreatment. *Bioresource Technology*, **2014**, 169, 336-343 | 11 | 66 |
| 9 | Three-dimensional cobalt oxide microstructures with brush-like morphology via surfactant-dependent assembly. *ACS Applied Materials & Interfaces*, **2014**, 6, 20729-37 | 9.5 | 28 |
| 8 | Effect of Organic Solvent in Ionic Liquid on Biomass Pretreatment. *ACS Sustainable Chemistry and Engineering*, **2013**, 1, 894-902 | 8.3 | 64 |
| 7 | Graphene for supercapacitor applications. *Journal of Materials Chemistry A*, **2013**, 1, 14814 | 13 | 348 |
| 6 | 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 | 13 | 44 |
| 5 | Distillable Ionic Liquids: Reversible Amide O Alkylation. *Angewandte Chemie*, **2013**, 125, 13634-13638 | 3.6 | 3 |
| 4 | Improvement of biomass properties by pretreatment with ionic liquids for bioconversion process. *Bioresource Technology*, **2012**, 111, 453-9 | 11 | 98 |

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| 3 | Estimation of the free energy of hard-sphere crystals via a free-volume approach. *Molecular Simulation*, **2012**, 38, 16-22 | 2 | 5 |
| 2 | Fabrication of a mesoporous Co(OH)2/ITO nanowire composite electrode and its application in supercapacitors. *RSC Advances*, **2012**, 2, 10512 | 3.7 | 21 |
| 1 | What causes the low viscosity of ether-functionalized ionic liquids? Its dependence on the increase of free volume. *RSC Advances*, **2012**, 2, 10564 | 3.7 | 84 |