# Chun-Hu Chen

List of Publications by Year
in descending order

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|---|---|---|---|
| 82 papers | 3,900 citations | 136950 32 h-index | 118850 62 g-index |
| 87 all docs | 87 docs citations | 87 times ranked | 5701 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Highly-Oxidized Graphene Oxide for Achieving Low-Loss Hybrid Waveguide Gratings on SOI. IEEE Journal of Selected Topics in Quantum Electronics, 2022, 28, 1-9. | 2.9 | 2 |
| 2 | Enhanced Thermal Conducting Behavior of Pressurized Graphene-Silver Flake Composites. Langmuir, 2022, 38, 727-734. | 3.5 | 6 |
| 3 | Rubâ€Resistant Antibacterial Surface Conversion Layer on Stainless Steel. Advanced Materials Interfaces, 2022, 9, . | 3.7 | 7 |
| 4 | Rubâ€Resistant Antibacterial Surface Conversion Layer on Stainless Steel (Adv. Mater. Interfaces) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 | 3.7 | 0 |
| 5 | Laser-Accelerated Mass Transport in Oxygen Reduction Via a Graphene-Supported Silverâ€“Iron Oxide Heterojunction. Journal of Physical Chemistry Letters, 2022, 13, 4200-4206. | 4.6 | 2 |
| 6 | Activation Energy Assessing Potential-Dependent Activities and Site Reconstruction for Oxygen Evolution. ACS Energy Letters, 2022, 7, 2236-2243. | 17.4 | 14 |
| 7 | Rational design of hetero-dimensional C-ZnO/MoS2 nanocomposite anchored on 3D mesoporous carbon framework towards synergistically enhanced stability and efficient visible-light-driven photocatalytic activity. Chemosphere, 2021, 266, 129148. | 8.2 | 28 |
| 8 | Magnetic hollow buoyant alginate beads achieving rapid remediation of oil contamination on water. Journal of Environmental Chemical Engineering, 2021, 9, 104935. | 6.7 | 7 |
| 9 | Efficient One-Step Conversion of a Low-Grade Vegetable Oil to Biodiesel over a Zinc Carboxylate Metalâ€“Organic Framework. ACS Omega, 2021, 6, 1834-1845. | 3.5 | 18 |
| 10 | Rock Salt Oxide Hollow Spheres Achieving Durable Performance in Bifunctional Oxygen Energy Cells. ACS Applied Energy Materials, 2021, 4, 3448-3459. | 5.1 | 10 |
| 11 | Microâ€droplet Trapping and Manipulation: Understanding Aerosol Better for a Healthier Environment. Chemistry - an Asian Journal, 2021, 16, 1644-1660. | 3.3 | 3 |
| 12 | Cobalt Iron Oxides Prepared by Acidic Redox-Assisted Precipitation: Characterization, Applications, and New Opportunities. ACS Applied Materials & Interfaces, 2021, , . | 8.0 | 2 |
| 13 | Role of carrier-transfer in the optical nonlinearity of graphene/Bi<sub>2</sub>Te<sub>3</sub> heterojunctions. Nanoscale, 2020, 12, 16956-16966. | 5.6 | 20 |
| 14 | Gold Nanoparticles Grown by Galvanic Replacement on Graphene-Coated Aluminum Panels as Large-Area Substrates for Surface-Enhanced Raman Scattering. ACS Applied Nano Materials, 2020, 3, 5783-5793. | 5.0 | 9 |
| 15 | Facile Bottom-up Preparation of WS2-Based Water-Soluble Quantum Dots as Luminescent Probes for Hydrogen Peroxide and Glucose. Nanoscale Research Letters, 2019, 14, 271. | 5.7 | 28 |
| 16 | Regenerable Acidity of Graphene Oxide in Promoting Multicomponent Organic Synthesis. Scientific Reports, 2019, 9, 15579. | 3.3 | 28 |
| 17 | Discontinuityâ€Enhanced Thin Film Electrocatalytic Oxygen Evolution. Small, 2019, 15, e1903363. | 10.0 | 11 |
| 18 | Molecular Approach To Enhance Thermal Conductivity in Electrically Conductive Adhesives. ACS Applied Electronic Materials, 2019, 1, 1890-1898. | 4.3 | 10 |

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|---|---|---|---|
| 19 | Binder-free graphene oxide doughs. Nature Communications, 2019, 10, 422. | 12.8 | 44 |
| 20 | Removal of chlorpheniramine and variations of nitrosamine formation potentials in municipal wastewaters by adsorption onto the GO-Fe3O4. Environmental Science and Pollution Research, 2019, 26, 20701-20711. | 5.3 | 12 |
| 21 | Two-photon absorption within layered Bi<sub>2</sub>Te<sub>3</sub> topological insulators and the role of nonlinear transmittance therein. Journal of Materials Chemistry C, 2019, 7, 7027-7034. | 5.5 | 26 |
| 22 | Electrocatalytic Oxygen Evolution: Discontinuityâ€Enhanced Thin Film Electrocatalytic Oxygen Evolution (Small 50/2019). Small, 2019, 15, 1970270. | 10.0 | 0 |
| 23 | Binary Cobalt Manganese Oxide Systems for Electrocatalytic Applications. ECS Meeting Abstracts, 2019, , . | 0.0 | 0 |
| 24 | Facile and Costâ€Efficient Synthesis of Quasiâ€0D/2D ZnO/MoS<sub>2</sub> Nanocomposites for Highly Enhanced Visibleâ€Lightâ€Driven Photocatalytic Degradation of Organic Pollutants and Antibiotics. Chemistry - A European Journal, 2018, 24, 9305-9315. | 3.3 | 61 |
| 25 | Facet-specific heterojunction in gold-decorated pyramidal silicon for electrochemical hydrogen peroxide sensing. Sensors and Actuators B: Chemical, 2018, 266, 463-471. | 7.8 | 19 |
| 26 | Achieving Solidification and Redispersion of Semiconducting Polymer Dots by Layered Double Hydroxide Incorporation. ACS Applied Nano Materials, 2018, 1, 55-64. | 5.0 | 7 |
| 27 | Si photonics waveguide Bragg reflector based on thin graphene oxide grating overlay. , 2018, , . | | 0 |
| 28 | Heterojunctions of silverâ€“iron oxide on graphene for laser-coupled oxygen reduction reactions. Chemical Communications, 2018, 54, 7900-7903. | 4.1 | 23 |
| 29 | Redox-assisted multicomponent deposition of ultrathin amorphous metal oxides on arbitrary substrates: highly durable cobalt manganese oxyhydroxide for efficient oxygen evolution. Journal of Materials Chemistry A, 2018, 6, 17915-17928. | 10.3 | 20 |
| 30 | Light-Emitting Illumination and Field Emission Device of Potassium Hydroxide-Doped Electrochemically Reduced Graphene Oxide. IEEE Transactions on Electron Devices, 2017, 64, 2251-2256. | 3.0 | 2 |
| 31 | Effective Synthesis of Highly Oxidized Graphene Oxide That Enables Wafer-scale Nanopatterning: Preformed Acidic Oxidizing Medium Approach. Scientific Reports, 2017, 7, 3908. | 3.3 | 43 |
| 32 | The Effect of Surface Pretreatment on the Corrosion Performance of Graphene Coatings on 6061 Aluminum Alloy. ECS Transactions, 2017, 77, 693-703. | 0.5 | 2 |
| 33 | Different influences of nanopore dimension and pH between chlorpheniramine adsorptions on graphene oxide-iron oxide suspension and particle. Chemical Engineering Journal, 2017, 307, 447-455. | 12.7 | 27 |
| 34 | Narrowband silicon waveguide Bragg reflector achieved by highly ordered graphene oxide gratings. Optics Letters, 2017, 42, 4768. | 3.3 | 11 |
| 35 | Weakly-coupled Si waveguide Bragg reflector enabled by precisely-controlled graphene oxide gratings. , 2017, , . | | 0 |
| 36 | Silicon/Graphene Oxide Hybrid Photonic Waveguide Filter. , 2016, , . | | 0 |

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|---|---|---|---|
| 37 | Enhanced Photocatalytic Performance of ZnO Nanorods Coupled by Twoâ€Dimensional Î±â€MoO‹sub›3‹/sub› Nanoflakes under UV and Visible Light Irradiation. Chemistry - A European Journal, 2016, 22, 12777-12784. | 3.3 | 27 |
| 38 | Full Solutionâ€Processed Synthesis and Mechanisms of a Recyclable and Bifunctional Au/ZnO Plasmonic Platform for Enhanced UV/Vis Photocatalysis and Optical Properties. Chemistry - A European Journal, 2016, 22, 14950-14961. | 3.3 | 29 |
| 39 | General Solvent-dependent Strategy toward Enhanced Oxygen Reduction Reaction in Graphene/Metal Oxide Nanohybrids: Effects of Nitrogen-containing Solvent. Scientific Reports, 2016, 6, 37174. | 3.3 | 21 |
| 40 | Mechanistic insights into light-driven graphene-induced peroxide decomposition: radical generation and disproportionation. Chemical Communications, 2016, 52, 9291-9294. | 4.1 | 5 |
| 41 | Photochemical Green Synthesis of Nanostructured Cobalt Oxides as Hydrogen Peroxide Redox for Bifunctional Sensing Application. Electrochimica Acta, 2016, 190, 588-595. | 5.2 | 23 |
| 42 | Thin and Transferrable Graphene Oxide Grating Layer. , 2016, , . | | 0 |
| 43 | Field emission of electrochemical graphene oxide. , 2015, , . | | 1 |
| 44 | Hybridization of Graphene in 3D Complex Nanovoids: Synergistic Nanocomposites for Electrocatalytic Reduction of Hydrogen Peroxide. Electrochimica Acta, 2015, 180, 1014-1022. | 5.2 | 16 |
| 45 | Structural Distortion of Molybdenum-Doped Manganese Oxide Octahedral Molecular Sieves for Enhanced Catalytic Performance. Inorganic Chemistry, 2015, 54, 10163-10171. | 4.0 | 78 |
| 46 | Graphene thickness-controlled photocatalysis and surface enhanced Raman scattering. Nanoscale, 2014, 6, 12805-12813. | 5.6 | 41 |
| 47 | Redox preparation of mixed-valence cobalt manganese oxide nanostructured materials: highly efficient noble metal-free electrocatalysts for sensing hydrogen peroxide. Nanoscale, 2014, 6, 334-341. | 5.6 | 98 |
| 48 | Hierarchical nanostructures with unique Y-shaped interconnection networks in manganese substituted cobalt oxides: the enhancement effect on electrochemical sensing performance. Chemical Communications, 2013, 49, 3025. | 4.1 | 23 |
| 49 | Site-specific stamping of graphene micro-patterns over large areas using flexible stamps. Nanotechnology, 2012, 23, 235603. | 2.6 | 5 |
| 50 | Control of Catalytic Activity Via Porosity, Chemical Composition, and Morphology of Nanostructured Porous Manganese Oxide Materials. Journal of the Chinese Chemical Society, 2012, 59, 465-472. | 1.4 | 15 |
| 51 | Plasma sprayed gadolinium zirconate thermal barrier coatings that are resistant to damage by molten Caâ€“Mgâ€“Alâ€“silicate glass. Surface and Coatings Technology, 2012, 206, 3911-3916. | 4.8 | 110 |
| 52 | A Foaming Esterification Solâ€“Gel Route for the Synthesis of Magnesiaâ€“Yttria Nanocomposites. Journal of the American Ceramic Society, 2011, 94, 367-371. | 3.8 | 29 |
| 53 | Manganese Oxide Octahedral Molecular Sieves (OMS-2) Multiple Framework Substitutions: A New Route to OMS-2 Particle Size and Morphology Control. Advanced Functional Materials, 2011, 21, 312-323. | 14.9 | 157 |
| 54 | Preferential oxidation of CO in H2-rich feeds over mesoporous copper manganese oxides synthesized by a redox method. International Journal of Hydrogen Energy, 2011, 36, 6768-6779. | 7.1 | 49 |

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| 55 | ZnO/La2O2CO3 layered composite: A new heterogeneous catalyst for the efficient ultra-fast microwave biofuel production. Applied Catalysis B: Environmental, 2011, 103, 200-205. | 20.2 | 47 |
| 56 | High quality, transferrable graphene grown on single crystal Cu(111) thin films on basal-plane sapphire. Applied Physics Letters, 2011, 98, . | 3.3 | 113 |
| 57 | Titanium Containing Î³â€MnO<sub>2</sub> (TM) Hollow Spheres: Oneâ€Step Synthesis and Catalytic Activities in Li/Air Batteries and Oxidative Chemical Reactions. Advanced Functional Materials, 2010, 20, 3373-3382. | 14.9 | 146 |
| 58 | Nanoscale manganese oxide octahedral molecular sieves (OMS-2) as efficient photocatalysts in 2-propanol oxidation. Applied Catalysis A: General, 2010, 375, 295-302. | 4.3 | 85 |
| 59 | Total oxidation of CO at ambient temperature using copper manganese oxide catalysts prepared by a redox method. Applied Catalysis B: Environmental, 2010, 99, 103-110. | 20.2 | 159 |
| 60 | Heteroepitaxial Growth of Nanoscale Oxide Shell/Fiber Superstructures by Mild Hydrothermal Processes. Small, 2010, 6, 988-992. | 10.0 | 16 |
| 61 | Nanostructured arrays of semiconducting octahedral molecular sieves by pulsed-laser deposition. Nature Materials, 2010, 9, 54-59. | 27.5 | 29 |
| 62 | Hydrophobic Polymer-Coated Metal Oxide Catalysts for Effective Low-Temperature Oxidation of CO under Moisture-Rich Conditions. Chemistry of Materials, 2010, 22, 3313-3315. | 6.7 | 34 |
| 63 | Microwave-Assisted Hydrothermal Synthesis of Cryptomelane-Type Octahedral Molecular Sieves (OMS-2) and Their Catalytic Studies. Chemistry of Materials, 2010, 22, 3664-3669. | 6.7 | 89 |
| 64 | Single-step synthesis of manganese oxide octahedral molecular sieves with large pore sizes. Chemical Communications, 2010, 46, 5945. | 4.1 | 31 |
| 65 | Microwave-Assisted Synthesis of Manganese Oxide Octahedral Molecular Sieve (OMS-2) Nanomaterials under Continuous Flow Conditions. Journal of Physical Chemistry C, 2010, 114, 14417-14426. | 3.1 | 51 |
| 66 | Removal of Aqueous Phenol by Adsorption and Oxidation with Doped Hydrophobic Cryptomelane-Type Manganese Oxide (Kâ^'OMS-2) Nanofibers. Journal of Physical Chemistry C, 2010, 114, 9835-9844. | 3.1 | 68 |
| 67 | Manganese octahedral molecular sieve catalysts for selective styrene oxide ring opening. Catalysis Today, 2009, 140, 162-168. | 4.4 | 30 |
| 68 | Î³-MnO2 octahedral molecular sieve: Preparation, characterization, and catalytic activity in the atmospheric oxidation of toluene. Applied Catalysis A: General, 2009, 355, 169-175. | 4.3 | 34 |
| 69 | ZnO with Different Morphologies Synthesized by Solvothermal Methods for Enhanced Photocatalytic Activity. Chemistry of Materials, 2009, 21, 2875-2885. | 6.7 | 444 |
| 70 | Green Decomposition of Organic Dyes Using Octahedral Molecular Sieve Manganese Oxide Catalysts. Journal of Physical Chemistry A, 2009, 113, 1523-1530. | 2.5 | 92 |
| 71 | Novel Urchin-like CuO Synthesized by a Facile Reflux Method with Efficient Olefin Epoxidation Catalytic Performance. Chemistry of Materials, 2009, 21, 1253-1259. | 6.7 | 151 |
| 72 | Controlled Synthesis of Selfâ€Assembled Metal Oxide Hollow Spheres Via Tuning Redox Potentials: Versatile Nanostructured Cobalt Oxides. Advanced Materials, 2008, 20, 1205-1209. | 21.0 | 92 |

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|---|---|---|---|
| 73 | Framework Doping of Indium in Manganese Oxide Materials: Synthesis, Characterization, and Electrocatalytic Reduction of Oxygen. Chemistry of Materials, 2008, 20, 2069-2071. | 6.7 | 56 |
| 74 | 3D Flowerlike Î±-Nickel Hydroxide with Enhanced Electrochemical Activity Synthesized by Microwave-Assisted Hydrothermal Method. Chemistry of Materials, 2008, 20, 308-316. | 6.7 | 419 |
| 75 | Systematic Control of Particle Size in Rapid Open-Vessel Microwave Synthesis of K-OMS-2 Nanofibers. Journal of Physical Chemistry C, 2008, 112, 6786-6793. | 3.1 | 64 |
| 76 | Effect of Microwave Frequency on Hydrothermal Synthesis of Nanocrystalline Tetragonal Barium Titanate. Journal of Physical Chemistry C, 2008, 112, 9659-9667. | 3.1 | 97 |
| 77 | Ultrasonic Nozzle Spray in Situ Mixing and Microwave-Assisted Preparation of Nanocrystalline Spinel Metal Oxides:â€‰ Nickel Ferrite and Zinc Aluminate. Journal of Physical Chemistry C, 2008, 112, 1407-1414. | 3.1 | 67 |
| 78 | A Designed Single-Step Method for Synthesis and Structural Study of Organicâ¯Inorganic Hybrid Materials: Well-Ordered Layered Manganese Oxide Nanocomposites. Journal of the American Chemical Society, 2008, 130, 14390-14391. | 13.7 | 33 |
| 79 | Syntheses of Nanostructures of Cobalt Hydrotalcite Like Compounds and Co<sub>3</sub>O<sub>4</sub> via a Microwave-Assisted Reflux Method. Journal of Physical Chemistry C, 2008, 112, 8177-8183. | 3.1 | 85 |
| 80 | New Synthetic Route, Characterization, and Electrocatalytic Activity of Nanosized Manganite. Chemistry of Materials, 2007, 19, 1832-1839. | 6.7 | 90 |
| 81 | Catalytic synthesis, characterization and magnetic properties of iron phosphide nanowires. Journal of Materials Chemistry, 2004, 14, 296-298. | 6.7 | 44 |
| 82 | Evolution of optical nonlinearity within graphene/Bi<sub>2</sub>Te<sub>3</sub> heterostructure. Journal of Materials Chemistry C, 0, , . | 5.5 | 3 |