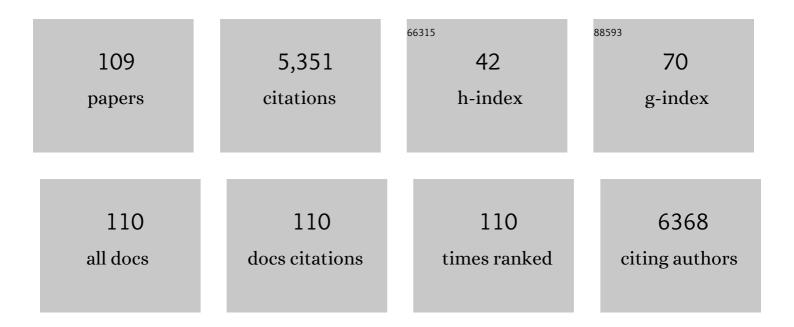


List of Publications by Year in descending order

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Χινι Τανι

| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Isolated Diatomic Niâ€Fe Metal–Nitrogen Sites for Synergistic Electroreduction of CO ₂ . Angewandte Chemie - International Edition, 2019, 58, 6972-6976. | 7.2 | 707 |
| 2 | Structural and Electronic Properties of Layered Arsenic and Antimony Arsenide. Journal of Physical Chemistry C, 2015, 119, 6918-6922. | 1.5 | 210 |
| 3 | Direct insights into the role of epoxy groups on cobalt sites for acidic H2O2 production. Nature Communications, 2020, 11, 4181. | 5.8 | 204 |
| 4 | A Janus MoSSe monolayer: a superior and strain-sensitive gas sensing material. Journal of Materials Chemistry A, 2019, 7, 1099-1106. | 5.2 | 187 |
| 5 | Tuning electronic and optical properties of MoS ₂ monolayer via molecular charge transfer. Journal of Materials Chemistry A, 2014, 2, 16892-16897. | 5.2 | 145 |
| 6 | A single-Pt-atom-on-Ru-nanoparticle electrocatalyst for CO-resilient methanol oxidation. Nature Catalysis, 2022, 5, 231-237. | 16.1 | 133 |
| 7 | Intrinsic ORR Activity Enhancement of Pt Atomic Sites by Engineering the <i>d</i> â€Band Center via Local Coordination Tuning. Angewandte Chemie - International Edition, 2021, 60, 21911-21917. | 7.2 | 132 |
| 8 | Electroreduction of CO ₂ to CO on a Mesoporous Carbon Catalyst with Progressively Removed Nitrogen Moieties. ACS Energy Letters, 2018, 3, 2292-2298. | 8.8 | 129 |
| 9 | Atomically Dispersed Indium Sites for Selective CO ₂ Electroreduction to Formic Acid. ACS Nano, 2021, 15, 5671-5678. | 7.3 | 121 |
| 10 | Isolated copper–tin atomic interfaces tuning electrocatalytic CO2 conversion. Nature Communications, 2021, 12, 1449. | 5.8 | 119 |
| 11 | Templateâ€Ðirected Rapid Synthesis of Pdâ€Based Ultrathin Porous Intermetallic Nanosheets for Efficient Oxygen Reduction. Angewandte Chemie - International Edition, 2021, 60, 10942-10949. | 7.2 | 115 |
| 12 | Implanting Ni-O-VOx sites into Cu-doped Ni for low-overpotential alkaline hydrogen evolution. Nature Communications, 2020, 11, 2720. | 5.8 | 113 |
| 13 | Controllable CO2 electrocatalytic reduction via ferroelectric switching on single atom anchored In2Se3 monolayer. Nature Communications, 2021, 12, 5128. | 5.8 | 110 |
| 14 | Phosphine vapor-assisted construction of heterostructured Ni ₂ P/NiTe ₂ catalysts for efficient hydrogen evolution. Energy and Environmental Science, 2020, 13, 1799-1807. | 15.6 | 105 |
| 15 | Sulfurâ€Dopantâ€Promoted Electroreduction of CO ₂ over Coordinatively Unsaturated Niâ€N ₂ Moieties. Angewandte Chemie - International Edition, 2021, 60, 23342-23348. | 7.2 | 98 |
| 16 | Modulating Pt-O-Pt atomic clusters with isolated cobalt atoms for enhanced hydrogen evolution catalysis. Nature Communications, 2022, 13, 2430. | 5.8 | 98 |
| 17 | Surface Reconstruction of Ultrathin Palladium Nanosheets during Electrocatalytic CO ₂ Reduction. Angewandte Chemie - International Edition, 2020, 59, 21493-21498. | 7.2 | 97 |
| 18 | Formation and Migration of Oxygen Vacancies in SrCoO ₃ and Their Effect on Oxygen Evolution Reactions. ACS Catalysis, 2016, 6, 5565-5570. | 5.5 | 96 |

| # | Article | lF | CITATIONS |
|----|--|-----|-----------|
| 19 | Processable Surface Modification of Nickelâ€Heteroatom (N, S) Bridge Sites for Promoted Alkaline Hydrogen Evolution. Angewandte Chemie - International Edition, 2019, 58, 461-466. | 7.2 | 95 |
| 20 | Thermodynamic model of the surface energy of nanocrystals. Physical Review B, 2006, 74, . | 1.1 | 89 |
| 21 | Borophene as a Promising Material for Charge-Modulated Switchable CO ₂ Capture. ACS Applied Materials & Interfaces, 2017, 9, 19825-19830. | 4.0 | 83 |
| 22 | N,P co-coordinated Fe species embedded in carbon hollow spheres for oxygen electrocatalysis. Journal of Materials Chemistry A, 2019, 7, 14732-14742. | 5.2 | 80 |
| 23 | On the mechanism of gas adsorption for pristine, defective and functionalized graphene. Physical Chemistry Chemical Physics, 2017, 19, 6051-6056. | 1.3 | 73 |
| 24 | Tungsten Oxide/Carbide Surface Heterojunction Catalyst with High Hydrogen Evolution Activity. ACS Energy Letters, 2020, 5, 3560-3568. | 8.8 | 70 |
| 25 | Interfacing BiVO 4 with Reduced Graphene Oxide for Enhanced Photoactivity: A Tale of Facet Dependence of Electron Shuttling. Small, 2016, 12, 5295-5302. | 5.2 | 68 |
| 26 | The controlled disassembly of mesostructured perovskites as an avenue to fabricating high performance nanohybrid catalysts. Nature Communications, 2017, 8, 15553. | 5.8 | 65 |
| 27 | Isolated Diatomic Niâ€Fe Metal–Nitrogen Sites for Synergistic Electroreduction of CO ₂ . Angewandte Chemie, 2019, 131, 7046-7050. | 1.6 | 65 |
| 28 | Metallic BSi ₃ Silicene: A Promising High Capacity Anode Material for Lithium-Ion Batteries. Journal of Physical Chemistry C, 2014, 118, 25836-25843. | 1.5 | 62 |
| 29 | p-Doped Graphene/Graphitic Carbon Nitride Hybrid Electrocatalysts: Unraveling Charge Transfer Mechanisms for Enhanced Hydrogen Evolution Reaction Performance. ACS Catalysis, 2016, 6, 7071-7077. | 5.5 | 62 |
| 30 | First-principles study of structural, electronic, and multiferroic properties in BiCoO3. Journal of Chemical Physics, 2007, 126, 154708. | 1.2 | 60 |
| 31 | Conductive Graphitic Carbon Nitride as an Ideal Material for Electrocatalytically Switchable CO2 Capture. Scientific Reports, 2015, 5, 17636. | 1.6 | 60 |
| 32 | The origin of low workfunctions in OH terminated MXenes. Nanoscale, 2017, 9, 7016-7020. | 2.8 | 59 |
| 33 | Electronic Regulation of Nickel Single Atoms by Confined Nickel Nanoparticles for Energyâ€Efficient CO ₂ Electroreduction. Angewandte Chemie - International Edition, 2022, 61, . | 7.2 | 57 |
| 34 | Confinement of Ionic Liquids at Single-Ni-Sites Boost Electroreduction of CO ₂ in Aqueous Electrolytes. ACS Catalysis, 2020, 10, 13171-13178. | 5.5 | 54 |
| 35 | An Ultra-Long-Life Flexible Lithium–Sulfur Battery with Lithium Cloth Anode and Polysulfone-Functionalized Separator. ACS Nano, 2021, 15, 1358-1369. | 7.3 | 53 |
| 36 | Conductive Boron-Doped Graphene as an Ideal Material for Electrocatalytically Switchable and High-Capacity Hydrogen Storage. ACS Applied Materials & Interfaces, 2016, 8, 32815-32822. | 4.0 | 52 |

| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 37 | Understanding the high activity of mildly reduced graphene oxide electrocatalysts in oxygen reduction to hydrogen peroxide. Materials Horizons, 2019, 6, 1409-1415. | 6.4 | 51 |
| 38 | Regulating electron transfer over asymmetric low-spin Co(II) for highly selective electrocatalysis. Chem Catalysis, 2022, 2, 372-385. | 2.9 | 50 |
| 39 | Mobile Polaronic States in α-MoO ₃ : An ab Initio Investigation of the Role of Oxygen Vacancies and Alkali Ions. ACS Applied Materials & Interfaces, 2016, 8, 10911-10917. | 4.0 | 49 |
| 40 | Stacking-Dependent Interlayer Magnetic Coupling in 2D CrI ₃ /CrGeTe ₃ Nanostructures for Spintronics. ACS Applied Nano Materials, 2020, 3, 1282-1288. | 2.4 | 47 |
| 41 | Antipoisoning Nickel–Carbon Electrocatalyst for Practical Electrochemical CO ₂ Reduction to CO. ACS Applied Energy Materials, 2019, 2, 8002-8009. | 2.5 | 45 |
| 42 | Layered Graphene–Hexagonal BN Nanocomposites: Experimentally Feasible Approach to Chargeâ€induced Switchable CO ₂ Capture. ChemSusChem, 2015, 8, 2987-2993. | 3.6 | 43 |
| 43 | Autocatalytic Surface Reductionâ€Assisted Synthesis of PtW Ultrathin Alloy Nanowires for Highly Efficient Hydrogen Evolution Reaction. Advanced Energy Materials, 2022, 12, . | 10.2 | 40 |
| 44 | Solid solubility limit in alloying nanoparticles. Nanotechnology, 2006, 17, 4257-4262. | 1.3 | 38 |
| 45 | Metallic BSi ₃ Silicene and Its One-Dimensional Derivatives: Unusual Nanomaterials with Planar Aromatic <i>D</i> _{6<i>h</i>} Six-Membered Silicon Rings. Journal of Physical Chemistry C, 2014, 118, 25825-25835. | 1.5 | 37 |
| 46 | Charge Modulation in Graphitic Carbon Nitride as a Switchable Approach to High apacity Hydrogen Storage. ChemSusChem, 2015, 8, 3626-3631. | 3.6 | 37 |
| 47 | Surface Reconstruction of Ultrathin Palladium Nanosheets during Electrocatalytic CO ₂ Reduction. Angewandte Chemie, 2020, 132, 21677-21682. | 1.6 | 37 |
| 48 | Physical and chemical origin of size-dependent spontaneous interfacial alloying of core–shell nanostructures. Chemical Physics Letters, 2006, 420, 65-70. | 1.2 | 34 |
| 49 | Tetragonal bismuth bilayer: a stable and robust quantum spin hall insulator. 2D Materials, 2015, 2, 045010. | 2.0 | 34 |
| 50 | Versatile electrocatalytic processes realized by Ni, Co and Fe alloyed core coordinated carbon shells. Journal of Materials Chemistry A, 2019, 7, 12154-12165. | 5.2 | 34 |
| 51 | Electrocatalytic Reduction of Carbon Dioxide to Methane on Single Transition Metal Atoms Supported on a Defective Boron Nitride Monolayer: First Principle Study. Advanced Theory and Simulations, 2019, 2, 1800094. | 1.3 | 33 |
| 52 | Encapsulated Silicene: A Robust Large-Gap Topological Insulator. ACS Applied Materials & Interfaces, 2015, 7, 19226-19233. | 4.0 | 31 |
| 53 | Sc and Nb dopants in SrCoO3 modulate electronic and vacancy structures for improved water splitting and SOFC cathodes. Energy Storage Materials, 2017, 9, 229-234. | 9.5 | 31 |
| 54 | First-principles study of pressure-induced metal-insulator transition in BiNiO3. Applied Physics Letters, 2007, 91, 101901. | 1.5 | 29 |

| # | Article | IF | CITATIONS |
|----|--|-------------------|--------------|
| 55 | Surface energy and shrinkage of a nanocavity. Applied Physics Letters, 2006, 89, 183104. | 1.5 | 28 |
| 56 | Charge-controlled switchable H2 storage on conductive borophene nanosheet. International Journal of Hydrogen Energy, 2019, 44, 20150-20157. | 3.8 | 26 |
| 57 | Hexagonal boron nitride and graphene in-plane heterostructures: An experimentally feasible approach to charge-induced switchable CO 2 capture. Chemical Physics, 2016, 478, 139-144. | 0.9 | 25 |
| 58 | Computational design of two-dimensional nanomaterials for charge modulated CO2/H2 capture and/or storage. Energy Storage Materials, 2017, 8, 169-183. | 9.5 | 25 |
| 59 | RhNi nanocatalyst: Spontaneous alloying and high activity for hydrogen generation from hydrous hydrazine. International Journal of Hydrogen Energy, 2016, 41, 6362-6368. | 3.8 | 24 |
| 60 | Charge-modulated permeability and selectivity in graphdiyne for hydrogen purification. Molecular Simulation, 2016, 42, 573-579. | 0.9 | 24 |
| 61 | Defect Engineering in Graphene-Confined Single-Atom Iron Catalysts for Room-Temperature Methane Conversion. Journal of Physical Chemistry C, 2021, 125, 12628-12635. | 1.5 | 22 |
| 62 | Materials design for electrocatalytic carbon capture. APL Materials, 2016, 4, . | 2.2 | 20 |
| 63 | Light, Catalyst, Activation: Boosting Catalytic Oxygen Activation Using a Light Pretreatment Approach. ACS Catalysis, 2017, 7, 3644-3653. | 5.5 | 20 |
| 64 | Processable Surface Modification of Nickelâ€Heteroatom (N, S) Bridge Sites for Promoted Alkaline Hydrogen Evolution. Angewandte Chemie, 2018, 131, 471. | 1.6 | 19 |
| 65 | Dependence of morphology of pulsed-laser deposited coatings on temperature: a kinetic Monte Carlo simulation. Surface and Coatings Technology, 2005, 197, 288-293. | 2.2 | 18 |
| 66 | First-Principle Framework for Total Charging Energies in Electrocatalytic Materials and Charge-Responsive Molecular Binding at Gas–Surface Interfaces. ACS Applied Materials & Interfaces, 2016, 8, 10897-10903. | 4.0 | 18 |
| 67 | Pulsed-laser deposition of polycrystalline Ni films: A three-dimensional kinetic Monte Carlo simulation. Surface Science, 2005, 588, 175-183. | 0.8 | 15 |
| 68 | Ordering Fe nanowire on stepped Cu (111) surface. Applied Physics Letters, 2006, 88, 263116. | 1.5 | 14 |
| 69 | Giant Magneto-Optical Kerr Effects in Ferromagnetic Perovskite BiNiO ₃ with Half-Metallic State. Journal of Physical Chemistry C, 2008, 112, 16638-16642. | 1.5 | 13 |
| 70 | With the same Clar formulas, do the two-dimensional sandwich nanostructures X–Cr–X (X = C4H,) Tj ETQq | 0 0 0 rgBT 1.3 | /Oygrlock 10 |
| 71 | Synthesis, optical properties and theoretical modelling of discrete emitting states in doped silicon nanocrystals for bioimaging. Nanoscale, 2018, 10, 15600-15607. | 2.8 | 13 |

| /1 | nanocrystals for bioimaging. Nanoscale, 2018, 10, 15600-15607. | 2.0 | 10 |
|----|---|-----|----|
| 72 | Ab initio study of rumpled relaxation and core-level shift of barium titanate surface. Surface Science, 2007, 601, 1345-1350. | 0.8 | 12 |

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 73 | Nitrogen Doped Carbon Nanosheets Coupled Nickel–Carbon Pyramid Arrays Toward Efficient Evolution of Hydrogen. Advanced Sustainable Systems, 2017, 1, 1700032. | 2.7 | 12 |
| 74 | Unveiling the role of carbon oxidation in irreversible degradation of atomically-dispersed FeN ₄ moieties for proton exchange membrane fuel cells. Journal of Materials Chemistry A, 2021, 9, 8721-8729. | 5.2 | 11 |
| 75 | In Operando Selfâ€Healing of Perovskite Electrocatalysts: A Case Study of SrCoO ₃ for the Oxygen Evolution Reaction. Particle and Particle Systems Characterization, 2017, 34, 1600280. | 1.2 | 10 |
| 76 | Theory-guided construction of electron-deficient sites via removal of lattice oxygen for the boosted electrocatalytic synthesis of ammonia. Nano Research, 2021, 14, 1457-1464. | 5.8 | 10 |
| 77 | Templateâ€Directed Rapid Synthesis of Pdâ€Based Ultrathin Porous Intermetallic Nanosheets for Efficient Oxygen Reduction. Angewandte Chemie, 2021, 133, 11037-11044. | 1.6 | 9 |
| 78 | Sulfurâ€Dopantâ€Promoted Electroreduction of CO 2 over Coordinatively Unsaturated Niâ€N 2 Moieties. Angewandte Chemie, 0, , . | 1.6 | 9 |
| 79 | New insights on the substantially reduced bandgap of bismuth layered perovskite oxide thin films. Journal of Materials Chemistry C, 2021, 9, 3161-3170. | 2.7 | 9 |
| 80 | Electronic Regulation of Nickel Single Atoms by Confined Nickel Nanoparticles for Energy fficient CO ₂ Electroreduction. Angewandte Chemie, 2022, 134, . | 1.6 | 9 |
| 81 | First-principles study for the atomic structures and electronic properties of PbTiO3 oxygen-vacancies (001) surface. Surface Science, 2007, 601, 5412-5418. | 0.8 | 8 |
| 82 | Charge-modulated CO2 capture. Current Opinion in Electrochemistry, 2017, 4, 118-123. | 2.5 | 8 |
| 83 | Oxygen Electrocatalysis at Mn ^{III} –O <i>_x</i> –C Hybrid Heterojunction: An Electronic Synergy or Cooperative Catalysis?. ACS Applied Materials & Interfaces, 2019, 11, 706-713. | 4.0 | 7 |
| 84 | Facile CO Oxidation on Oxygenâ€functionalized MXenes via the Marsâ€van Krevelen Mechanism. ChemCatChem, 2020, 12, 1007-1012. | 1.8 | 7 |
| 85 | Vanadium Oxide Clusters Decorated Metallic Cobalt Catalyst for Active Alkaline Hydrogen Evolution. Cell Reports Physical Science, 2020, 1, 100275. | 2.8 | 7 |
| 86 | Regioselective Oxidation of Strained Graphene for Controllable Synthesis of Nanoribbons. Journal of Physical Chemistry C, 2013, 117, 19160-19166. | 1.5 | 6 |
| 87 | Unraveling the Factors Behind the Efficiency of Hydrogen Evolution in Endohedrally Doped C ₆₀ Structures via Ab Initio Calculations and Insights from Machine Learning Models. Advanced Theory and Simulations, 2019, 2, 1800202. | 1.3 | 6 |
| 88 | Huge Lithium Storage in 2D Bilayer Structures with Point Defects. Journal of Physical Chemistry C, 2021, 125, 23597-23603. | 1.5 | 6 |
| 89 | Catalytic Bond-Breaking Selectivity in the Ethylene Decomposition on Ni Surfaces:  Kinetic Monte Carlo Simulations. Journal of Physical Chemistry C, 2008, 112, 4219-4225. | 1.5 | 5 |
| 90 | Enhanced stability and stacking dependent magnetic/electronic properties of 2D monolayer FeTiO ₃ on a Ti ₂ CO ₂ substrate. Journal of Materials Chemistry C, 2019, 7, 15308-15314. | 2.7 | 5 |

| # | Article | IF | CITATIONS |
|-----|--|-----|-----------|
| 91 | Roughing titanium quantum wire on patterned monohydride diamond (001) surface. Journal of Chemical Physics, 2007, 126, 184705. | 1.2 | 4 |
| 92 | Supramolecular Nanowires Self-Assembly on Stepped Ag(110) Surface. Journal of Physical Chemistry C, 2009, 113, 19926-19929. | 1.5 | 4 |
| 93 | Intrinsic ORR Activity Enhancement of Pt Atomic Sites by Engineering the d â€Band Center via Local Coordination Tuning. Angewandte Chemie, 2021, 133, 22082-22088. | 1.6 | 4 |
| 94 | Plate model to evaluate interfacial adhesion of anisotropy thin film in CSN test. Journal of Materials Science, 2004, 39, 4013-4016. | 1.7 | 2 |
| 95 | Temperature-dependent surface alloying in Au/Ni (1 1 0). Journal of Alloys and Compounds, 2009, 467, 428-433. | 2.8 | 2 |
| 96 | Molecular dynamics study of temperature-dependent ripples in monolayer and bilayer graphene on 6H—SiC surfaces. Chinese Physics B, 2012, 21, 066803. | 0.7 | 2 |
| 97 | First-principles calculations of surfactant-assisted growth of polar CaO(111) oxide film: The case of water-based surfactant. Physical Review B, 2012, 86, . | 1.1 | 2 |
| 98 | Fermi Level Determination for Charged Systems via Recursive Density of States Integration. Journal of Physical Chemistry Letters, 2018, 9, 4014-4019. | 2.1 | 2 |
| 99 | Hydrophilic tannic acid-modified WS ₂ nanosheets for enhanced polysulfide conversion in aqueous media. JPhys Energy, 2019, 1, 015005. | 2.3 | 2 |
| 100 | Activating Inert MXenes for Hydrogen Evolution Reaction via Anchored Metal Centers. Advanced Theory and Simulations, 2022, 5, . | 1.3 | 2 |
| 101 | COMPARISON OF ISLAND FORMATION BETWEEN PULSED LASER DEPOSITION AND MOLECULAR BEAM EPITAXY: A KINETIC MONTE CARLO SIMULATION. Surface Review and Letters, 2005, 12, 611-617. | 0.5 | 1 |
| 102 | Charge-induced transition between miscible and immiscible in nanometer-sized alloying particles. Chemical Physics Letters, 2006, 423, 143-146. | 1.2 | 1 |
| 103 | Thermodynamic stability of quantum dots on strained substrates. Physica E: Low-Dimensional Systems and Nanostructures, 2011, 43, 1755-1758. | 1.3 | 1 |
| 104 | GROWTH MECHANISM OF RING SHAPED NANOSTRUCTURES SELF-ASSEMBLY UPON DROPLET EPITAXY. Surface Review and Letters, 2012, 19, 1250029. | 0.5 | 1 |
| 105 | Electrocatalysts: In Operando Self-Healing of Perovskite Electrocatalysts: A Case Study of SrCoO3 for the Oxygen Evolution Reaction (Part. Part. Syst. Charact. 4/2017). Particle and Particle Systems Characterization, 2017, 34, . | 1.2 | 1 |
| 106 | Computational Materials Science: Discovering and Accelerating Future Technologies. Advanced Theory and Simulations, 2019, 2, 1900023. | 1.3 | 1 |
| 107 | Photocatalysis: Interfacing BiVO ₄ with Reduced Graphene Oxide for Enhanced Photoactivity: A Tale of Facet Dependence of Electron Shuttling (Small 38/2016). Small, 2016, 12, 5232-5232. | 5.2 | 0 |
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108 Hexagonal honeycomb silicon: Silicene. , 2017, , 171-188.

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| # | Article | lF | CITATIONS |
| 109 | Hexagonal honeycomb silicon: Silicene. Series in Materials Science and Engineering, 2017, , 171-188. | 0.1 | О |