

Gongxuan Lu

List of Publications by Year in descending order

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| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | The enhancement of CdS photocatalytic activity for water splitting via anti-photocorrosion by coating Ni ₂ P shell and removing nascent formed oxygen with artificial gill. Applied Catalysis B: Environmental, 2018, 221, 243-257. | 20.2 | 371 |
| 2 | 5.1% Apparent quantum efficiency for stable hydrogen generation over eosin-sensitized CuO/TiO ₂ photocatalyst under visible light irradiation. Catalysis Communications, 2007, 8, 1267-1273. | 3.3 | 361 |
| 3 | Eosin Y-sensitized graphitic carbon nitride fabricated by heating urea for visible light photocatalytic hydrogen evolution: the effect of the pyrolysis temperature of urea. Physical Chemistry Chemical Physics, 2013, 15, 7657. | 2.8 | 332 |
| 4 | Sites for High Efficient Photocatalytic Hydrogen Evolution on a Limited-Layered MoS ₂ Cocatalyst Confined on Graphene Sheets—The Role of Graphene. Journal of Physical Chemistry C, 2012, 116, 25415-25424. | 3.1 | 323 |
| 5 | Synthesis of CdS Nanorods by an Ethylenediamine Assisted Hydrothermal Method for Photocatalytic Hydrogen Evolution. Journal of Physical Chemistry C, 2009, 113, 9352-9358. | 3.1 | 296 |
| 6 | Enhanced Electron Transfer from the Excited Eosin Y to mpg-C ₃ N ₄ for Highly Efficient Hydrogen Evolution under 550 nm Irradiation. Journal of Physical Chemistry C, 2012, 116, 19644-19652. | 3.1 | 284 |
| 7 | Peculiar synergetic effect of MoS ₂ quantum dots and graphene on Metal-Organic Frameworks for photocatalytic hydrogen evolution. Applied Catalysis B: Environmental, 2017, 210, 45-56. | 20.2 | 269 |
| 8 | Photocatalytic and photoelectric properties of cubic Ag ₃ PO ₄ sub-microcrystals with sharp corners and edges. Chemical Communications, 2012, 48, 3748. | 4.1 | 268 |
| 9 | Dye-Sensitized Reduced Graphene Oxide Photocatalysts for Highly Efficient Visible-Light-Driven Water Reduction. Journal of Physical Chemistry C, 2011, 115, 13938-13945. | 3.1 | 265 |
| 10 | Photocorrosion inhibition of CdS-based catalysts for photocatalytic overall water splitting. Nanoscale, 2020, 12, 1213-1223. | 5.6 | 265 |
| 11 | Visible Photocatalytic Water Splitting and Photocatalytic Two-Electron Oxygen Formation over Cu- and Fe-Doped g-C ₃ N ₄ . Journal of Physical Chemistry C, 2016, 120, 56-63. | 3.1 | 251 |
| 12 | Direct Observation of Charge Separation on Anatase TiO ₂ Crystals with Selectively Etched {001} Facets. Journal of the American Chemical Society, 2016, 138, 2917-2920. | 13.7 | 210 |
| 13 | Enhancing catalytic activity and stability for CO ₂ methanation on Ni@MOF-5 via control of active species dispersion. Chemical Communications, 2015, 51, 1728-1731. | 4.1 | 209 |
| 14 | Selective growth of Ag ₃ PO ₄ submicro-cubes on Ag nanowires to fabricate necklace-like heterostructures for photocatalytic applications. Journal of Materials Chemistry, 2012, 22, 14847. | 6.7 | 179 |
| 15 | Inhibition of photocorrosion of CdS via assembling with thin film TiO ₂ and removing formed oxygen by artificial gill for visible light overall water splitting. Applied Catalysis B: Environmental, 2017, 212, 129-139. | 20.2 | 168 |
| 16 | Inhibition of CdS photocorrosion by Al ₂ O ₃ shell for highly stable photocatalytic overall water splitting under visible light irradiation. Applied Catalysis B: Environmental, 2018, 226, 373-383. | 20.2 | 167 |
| 17 | Dye-Sensitized NiS Catalyst Decorated on Graphene for Highly Efficient Reduction of Water to Hydrogen under Visible Light Irradiation. ACS Catalysis, 2014, 4, 2763-2769. | 11.2 | 163 |
| 18 | Investigation of the steam reforming of a series of model compounds derived from bio-oil for hydrogen production. Applied Catalysis B: Environmental, 2009, 88, 376-385. | 20.2 | 157 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Investigation of steam reforming of acetic acid to hydrogen over Ni-Co metal catalyst. Journal of Molecular Catalysis A, 2007, 261, 43-48. | 4.8 | 155 |
| 20 | Photocatalytic production of hydrogen in single component and mixture systems of electron donors and monitoring adsorption of donors by in situ infrared spectroscopy. Chemosphere, 2003, 52, 843-850. | 8.2 | 154 |
| 21 | Eosin Y-sensitized nitrogen-doped TiO ₂ for efficient visible light photocatalytic hydrogen evolution. Journal of Molecular Catalysis A, 2008, 282, 117-123. | 4.8 | 150 |
| 22 | Highly efficient hydrogen evolution over Co(OH) ₂ nanoparticles modified g-C ₃ N ₄ co-sensitized by Eosin Y and Rose Bengal under Visible Light Irradiation. Applied Catalysis B: Environmental, 2016, 188, 56-64. | 20.2 | 150 |
| 23 | Small-sized Ni(1 1 1) particles in metal-organic frameworks with low over-potential for visible photocatalytic hydrogen generation. Applied Catalysis B: Environmental, 2016, 190, 12-25. | 20.2 | 145 |
| 24 | Photocatalytic hydrogen generation in the presence of chloroacetic acids over Pt/TiO ₂ . Chemosphere, 2006, 63, 1312-1318. | 8.2 | 139 |
| 25 | Concave trisoctahedral Ag ₃ PO ₄ microcrystals with high-index facets and enhanced photocatalytic properties. Chemical Communications, 2013, 49, 636-638. | 4.1 | 137 |
| 26 | Visible-Light-Induced Photocatalytic Hydrogen Generation on Dye-Sensitized Multiwalled Carbon Nanotube/Pt Catalyst. Journal of Physical Chemistry C, 2007, 111, 11494-11499. | 3.1 | 132 |
| 27 | The effect of impregnation strategy on structural characters and CO ₂ methanation properties over MgO modified Ni/SiO ₂ catalysts. Catalysis Communications, 2014, 54, 55-60. | 3.3 | 132 |
| 28 | Comparative study of alumina-supported transition metal catalysts for hydrogen generation by steam reforming of acetic acid. Applied Catalysis B: Environmental, 2010, 99, 289-297. | 20.2 | 131 |
| 29 | Unveiling the Activity and Stability Origin of BiVO ₄ Photoanodes with FeNi Oxyhydroxides for Oxygen Evolution. Angewandte Chemie - International Edition, 2020, 59, 18990-18995. | 13.8 | 129 |
| 30 | The Doping Effect of Bi on TiO ₂ for Photocatalytic Hydrogen Generation and Photodecolorization of Rhodamine B. Journal of Physical Chemistry C, 2009, 113, 9950-9955. | 3.1 | 127 |
| 31 | Boron and nitrogen co-doped titania with enhanced visible-light photocatalytic activity for hydrogen evolution. Applied Surface Science, 2008, 254, 6831-6836. | 6.1 | 126 |
| 32 | Fabrication of Low Adsorption Energy Ni-Mo Cluster Cocatalyst in Metal-Organic Frameworks for Visible Photocatalytic Hydrogen Evolution. ACS Applied Materials & Interfaces, 2016, 8, 10808-10819. | 8.0 | 124 |
| 33 | Photocatalytic hydrogen evolution over Pt/Cd _{0.5} Zn _{0.5} S from saltwater using glucose as electron donor: An investigation of the influence of electrolyte NaCl. International Journal of Hydrogen Energy, 2011, 36, 4291-4297. | 7.1 | 123 |
| 34 | Dye-cosensitized graphene/Pt photocatalyst for high efficient visible light hydrogen evolution. International Journal of Hydrogen Energy, 2012, 37, 10564-10574. | 7.1 | 121 |
| 35 | Enhancing activity for carbon dioxide methanation by encapsulating (1 1 1) facet Ni particle in metal-organic frameworks at low temperature. Journal of Catalysis, 2017, 348, 200-211. | 6.2 | 118 |
| 36 | Improved quantum yield for photocatalytic hydrogen generation under visible light irradiation over eosin sensitized TiO ₂ —Investigation of different noble metal loading. Journal of Molecular Catalysis A, 2006, 259, 275-280. | 4.8 | 117 |

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|----|---|------|-----------|
| 37 | Direct electrochemistry and electrocatalysis of hemoglobin immobilized on carbon paste electrode by silica sol-gel film. <i>Biosensors and Bioelectronics</i> , 2004, 19, 1269-1275. | 10.1 | 113 |
| 38 | Formation of multilayer-Eosin Y-sensitized TiO ₂ via Fe ³⁺ coupling for efficient visible-light photocatalytic hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 5629-5636. | 7.1 | 111 |
| 39 | Facile synthesis of tetrahedral Ag ₃ PO ₄ submicro-crystals with enhanced photocatalytic properties. <i>Journal of Materials Chemistry A</i> , 2013, 1, 2387. | 10.3 | 109 |
| 40 | Nitrogen-incorporation activates NiFeOx catalysts for efficiently boosting oxygen evolution activity and stability of BiVO ₄ photoanodes. <i>Nature Communications</i> , 2021, 12, 6969. | 12.8 | 109 |
| 41 | Steam reforming of acetic acid over Ni/ZrO ₂ catalysts: Effects of nickel loading and particle size on product distribution and coke formation. <i>Applied Catalysis A: General</i> , 2012, 417-418, 281-289. | 4.3 | 107 |
| 42 | Selective Growth of Metallic Ag Nanocrystals on Ag ₃ PO ₄ Submicro-Cubes for Photocatalytic Applications. <i>Chemistry - A European Journal</i> , 2012, 18, 14272-14275. | 3.3 | 100 |
| 43 | High-Efficient Photocatalytic Hydrogen Evolution on Eosin Y-Sensitized Ti-MCM41 Zeolite under Visible-Light Irradiation. <i>Journal of Physical Chemistry C</i> , 2007, 111, 8237-8241. | 3.1 | 97 |
| 44 | Enhancement of photocatalytic activity of cadmium sulfide for hydrogen evolution by photoetching. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 2007-2013. | 7.1 | 97 |
| 45 | Two-dimensional dendritic Ag ₃ PO ₄ nanostructures and their photocatalytic properties. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 14486. | 2.8 | 92 |
| 46 | The role of a metallic copper interlayer during visible photocatalytic hydrogen generation over a Cu/Cu ₂ O/Cu/TiO ₂ catalyst. <i>Catalysis Science and Technology</i> , 2017, 7, 5028-5037. | 4.1 | 92 |
| 47 | Visible-light-driven photoelectrochemical and photocatalytic performances of Cr-doped SrTiO ₃ /TiO ₂ heterostructured nanotube arrays. <i>Scientific Reports</i> , 2013, 3, 2720. | 3.3 | 91 |
| 48 | Modulating and controlling active species dispersion over Ni-Co bimetallic catalysts for enhancement of hydrogen production of ethanol steam reforming. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 3349-3362. | 7.1 | 91 |
| 49 | Catalytic CO oxidation over palladium supported NaZSM-5 catalysts. <i>Applied Catalysis B: Environmental</i> , 2003, 41, 279-286. | 20.2 | 88 |
| 50 | Ni-Mo-S nanoparticles modified graphitic C ₃ N ₄ for efficient hydrogen evolution. <i>Applied Surface Science</i> , 2018, 427, 587-597. | 6.1 | 88 |
| 51 | Uniformly Sized (112) Facet Co ₂ P on Graphene for Highly Effective Photocatalytic Hydrogen Evolution. <i>Journal of Physical Chemistry C</i> , 2016, 120, 6409-6415. | 3.1 | 86 |
| 52 | The Role of Cu(I) Species for Photocatalytic Hydrogen Generation Over CuO x /TiO ₂ . <i>Catalysis Letters</i> , 2009, 133, 97-105. | 2.6 | 84 |
| 53 | Phosphate-assisted hydrothermal synthesis of hexagonal CdS for efficient photocatalytic hydrogen evolution. <i>CrystEngComm</i> , 2012, 14, 6974. | 2.6 | 84 |
| 54 | Robust Pt-Sn alloy decorated graphene nanohybrid cocatalyst for photocatalytic hydrogen evolution. <i>Chemical Communications</i> , 2014, 50, 9281-9283. | 4.1 | 84 |

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|----|---|------|-----------|
| 55 | Efficient Photocatalytic Hydrogen Evolution from Water without an Electron Mediator over Pt ⁰ /Ru ^{II} Bengal Catalysts. <i>Journal of Physical Chemistry C</i> , 2009, 113, 2630-2635. | 3.1 | 83 |
| 56 | Enhancing catalytic activity and stability for CO ₂ methanation on Ni ^{II} /Ru ^{II} /Al ₂ O ₃ via modulating impregnation sequence and controlling surface active species. <i>RSC Advances</i> , 2014, 4, 16472-16479. | 3.6 | 80 |
| 57 | Functionalization of TiO ₂ with graphene quantum dots for efficient photocatalytic hydrogen evolution. <i>Superlattices and Microstructures</i> , 2016, 94, 237-244. | 3.1 | 77 |
| 58 | Metal-free plasmonic boron phosphide/graphitic carbon nitride with core-shell structure photocatalysts for overall water splitting. <i>Applied Catalysis B: Environmental</i> , 2021, 280, 119410. | 20.2 | 75 |
| 59 | Inhibition of methane formation in steam reforming reactions through modification of Ni catalyst and the reactants. <i>Green Chemistry</i> , 2009, 11, 724. | 9.0 | 74 |
| 60 | Acetic acid steam reforming to hydrogen over Co ^{II} /Ce/Al ₂ O ₃ and Co ^{II} /La/Al ₂ O ₃ catalysts: The promotion effect of Ce and La addition. <i>Catalysis Communications</i> , 2010, 12, 50-53. | 3.3 | 74 |
| 61 | The difference of roles of alkaline-earth metal oxides on silica-supported nickel catalysts for CO ₂ methanation. <i>RSC Advances</i> , 2014, 4, 58171-58177. | 3.6 | 71 |
| 62 | Inhibition of hydrogen and oxygen recombination using oxygen transfer reagent hemin chloride in Pt/TiO ₂ dispersion for photocatalytic hydrogen generation. <i>Applied Catalysis B: Environmental</i> , 2017, 203, 408-415. | 20.2 | 68 |
| 63 | Bio-oil steam reforming, partial oxidation or oxidative steam reforming coupled with bio-oil dry reforming to eliminate CO ₂ emission. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 7169-7176. | 7.1 | 67 |
| 64 | Highly efficient hydrogen production from alkaline aldehyde solutions facilitated by palladium nanotubes. <i>Nano Energy</i> , 2014, 8, 103-109. | 16.0 | 67 |
| 65 | Synthesis of silver nanowires with different aspect ratios as alcohol-tolerant catalysts for oxygen electroreduction. <i>Electrochemistry Communications</i> , 2008, 10, 1027-1030. | 4.7 | 66 |
| 66 | Visible-light driven photocatalytic hydrogen generation on Eosin Y-sensitized Pt-loaded nanotube Na ₂ Ti ₂ O ₄ (OH) ₂ . <i>Journal of Molecular Catalysis A</i> , 2007, 266, 75-79. | 4.8 | 63 |
| 67 | Nano-Cu catalyze hydrogen production from formaldehyde solution at room temperature. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 2225-2232. | 7.1 | 63 |
| 68 | Steam reforming of acetic acid over cobalt catalysts: Effects of Zr, Mg and K addition. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 4793-4803. | 7.1 | 63 |
| 69 | Distinctive organized molecular assemble of MoS ₂ , MOF and Co ₃ O ₄ , for efficient dye-sensitized photocatalytic H ₂ evolution. <i>Catalysis Science and Technology</i> , 2018, 8, 2352-2363. | 4.1 | 63 |
| 70 | Facile and Rapid Oxidation Fabrication of BiOCl Hierarchical Nanostructures with Enhanced Photocatalytic Properties. <i>Chemistry - A European Journal</i> , 2013, 19, 9472-9475. | 3.3 | 62 |
| 71 | Super-paramagnetic nano-Fe ₃ O ₄ /graphene for visible-light-driven hydrogen evolution. <i>Chemical Communications</i> , 2015, 51, 10158-10161. | 4.1 | 62 |
| 72 | Dye-sensitized cobalt catalysts for high efficient visible light hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 4836-4844. | 7.1 | 61 |

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|----|---|------|-----------|
| 73 | Facile synthesis of "C=N" linked covalent organic frameworks under ambient conditions. <i>Chemical Communications</i> , 2017, 53, 11956-11959. | 4.1 | 61 |
| 74 | Enhancing hydrogen generation via fabricating peroxide decomposition layer over NiSe/MnO ₂ -CdS catalyst. <i>Journal of Catalysis</i> , 2018, 367, 269-282. | 6.2 | 60 |
| 75 | Pruning of the surface species on Ni/Al ₂ O ₃ catalyst to selective production of hydrogen via acetone and acetic acid steam reforming. <i>Applied Catalysis A: General</i> , 2012, 427-428, 49-57. | 4.3 | 58 |
| 76 | The inhibition of hydrogen and oxygen recombination reaction by halogen atoms on over-all water splitting over Pt-TiO ₂ photocatalyst. <i>Applied Catalysis B: Environmental</i> , 2018, 236, 240-252. | 20.2 | 58 |
| 77 | Control growth of uniform platinum nanotubes and their catalytic properties for methanol electrooxidation. <i>Electrochemistry Communications</i> , 2009, 11, 45-49. | 4.7 | 57 |
| 78 | Carboxyl-assisted synthesis of Co nanorods with high energy facet on graphene oxide sheets for efficient photocatalytic hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2017, 203, 789-797. | 20.2 | 57 |
| 79 | Enhancing photoactivity for hydrogen generation by electron tunneling via flip-flop hopping over iodinated graphitic carbon nitride. <i>Applied Catalysis B: Environmental</i> , 2017, 204, 33-42. | 20.2 | 57 |
| 80 | Water splitting over core-shell structural nanorod CdS@Cr ₂ O ₃ catalyst by inhibition of H ₂ -O ₂ recombination via removing nascent formed oxygen using perfluorodecalin. <i>Applied Catalysis B: Environmental</i> , 2018, 221, 618-625. | 20.2 | 57 |
| 81 | Syngas production by CO ₂ reforming of ethanol over Ni/Al ₂ O ₃ catalyst. <i>Catalysis Communications</i> , 2009, 10, 1633-1637. | 3.3 | 56 |
| 82 | Water splitting by CdS/Pt/WO ₃ -CeO _x photocatalysts with assisting of artificial blood perfluorodecalin. <i>Journal of Catalysis</i> , 2017, 350, 189-196. | 6.2 | 56 |
| 83 | Partial Oxidation of Ethanol to Hydrogen over Ni-Fe Catalysts. <i>Catalysis Letters</i> , 2002, 81, 63-68. | 2.6 | 53 |
| 84 | Assembly of Ultra-thin NiO Layer Over Zn _{1-x} Cd _x S for Stable Visible-light Photocatalytic Overall Water Splitting. <i>ChemSusChem</i> , 2019, 12, 1410-1420. | 6.8 | 53 |
| 85 | The long-term photocatalytic stability of Co ²⁺ -modified P25-TiO ₂ powders for the H ₂ production from aqueous ethanol solution. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2006, 181, 263-267. | 3.9 | 52 |
| 86 | Photocatalytic hydrogen generation using glycerol wastewater over Pt/TiO ₂ . <i>Frontiers of Chemistry in China: Selected Publications From Chinese Universities</i> , 2009, 4, 32-38. | 0.4 | 51 |
| 87 | Direct conversion of Bi nanospheres into 3D flower-like BiOBr nanoarchitectures with enhanced photocatalytic properties. <i>RSC Advances</i> , 2014, 4, 583-586. | 3.6 | 51 |
| 88 | Visible-light-induced hydrogen production over Pt-Eosin Y catalysts with high surface area silica gel as matrix. <i>Journal of Power Sources</i> , 2007, 166, 74-79. | 7.8 | 50 |
| 89 | Investigation of the Effects of Molecular Structure on Oxygenated Hydrocarbon Steam Re-forming. <i>Energy & Fuels</i> , 2009, 23, 926-933. | 5.1 | 49 |
| 90 | Z-Scheme Photocatalytic System Utilizing Separate Reaction Centers by Directional Movement of Electrons. <i>Journal of Physical Chemistry C</i> , 2011, 115, 8586-8593. | 3.1 | 49 |

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|-----|---|------|-----------|
| 91 | Photocatalytic hydrogen evolution under visible light irradiation by the polyoxometalate $\text{[AlSiW}_{11}\text{(H}_2\text{O)}\text{O}_{39}\text{]}^{5-}$ -Eosin Y system. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 12150-12157. | 7.1 | 49 |
| 92 | Renewable hydrogen production by a mild-temperature steam reforming of the model compound acetic acid derived from bio-oil. <i>Journal of Molecular Catalysis A</i> , 2012, 355, 123-133. | 4.8 | 49 |
| 93 | Interface Charge Transfer versus Surface Proton Reduction: Which Is More Pronounced on Photoinduced Hydrogen Generation over Sensitized Pt Cocatalyst on RGO?. <i>Journal of Physical Chemistry C</i> , 2015, 119, 13561-13568. | 3.1 | 49 |
| 94 | l-Arginine bearing an anthrylmethyl group: fluorescent molecular NAND logic gate with H^+ and ATP as inputs. <i>Tetrahedron Letters</i> , 2007, 48, 3891-3894. | 1.4 | 48 |
| 95 | Enhanced surface electron transfer by fabricating a core/shell Ni@NiO cluster on TiO ₂ and its role on high efficient hydrogen generation under visible light irradiation. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 8959-8968. | 7.1 | 48 |
| 96 | A novel amorphous CoSn _x O _y decorated graphene nanohybrid photocatalyst for highly efficient photocatalytic hydrogen evolution. <i>Chemical Communications</i> , 2014, 50, 5037-5039. | 4.1 | 48 |
| 97 | Catalytic oxidation of cyclohexane into cyclohexanol and cyclohexanone over a TiO ₂ /TS-1 system by dioxygen under UV irradiation. <i>Journal of the Chemical Society Chemical Communications</i> , 1994, , 2423. | 2.0 | 47 |
| 98 | Size-controlled synthesis of colloidal platinum nanoparticles and their activity for the electrocatalytic oxidation of carbon monoxide. <i>Journal of Colloid and Interface Science</i> , 2005, 287, 159-166. | 9.4 | 47 |
| 99 | Direct electrochemistry and electrocatalysis of hybrid film assembled by polyelectrolyte surfactant polymer, carbon nanotubes and hemoglobin. <i>Journal of Electroanalytical Chemistry</i> , 2006, 597, 51-59. | 3.8 | 47 |
| 100 | Dependence of Onset Potential for Methanol Electrocatalytic Oxidation on Steric Location of Active Center in Multicomponent Electrocatalysts. <i>Journal of Physical Chemistry C</i> , 2007, 111, 11897-11902. | 3.1 | 47 |
| 101 | Graft of lacunary Wells-Dawson heteropoly blue on the surface of TiO ₂ and its photocatalytic activity under visible light. <i>Chemical Communications</i> , 2009, , 3591. | 4.1 | 47 |
| 102 | BiAg Alloy Nanospheres: A New Photocatalyst for H_2 Evolution from Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 19488-19493. | 8.0 | 47 |
| 103 | The roles of density-tunable surface oxygen vacancy over bouquet-like Bi ₂ O ₃ in enhancing photocatalytic activity. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 4165. | 2.8 | 47 |
| 104 | Visible-to-ultraviolet Upconversion: Energy transfer, material matrix, and synthesis strategies. <i>Applied Catalysis B: Environmental</i> , 2017, 206, 89-103. | 20.2 | 47 |
| 105 | Enhanced photocatalytic activity of Ag/Ag ₃ PO ₄ coaxial hetero-nanowires. <i>Journal of Materials Chemistry A</i> , 2013, 1, 10612. | 10.3 | 46 |
| 106 | Modulating Photogenerated Electron Transfer and Hydrogen Production Rate by Controlling Surface Potential Energy on a Selectively Exposed Pt Facet on Pt/TiO ₂ for Enhancing Hydrogen Production. <i>Journal of Physical Chemistry C</i> , 2013, 117, 26415-26425. | 3.1 | 46 |
| 107 | Intrinsic magnetic characteristics-dependent charge transfer and visible photo-catalytic H_2 evolution reaction (HER) properties of a Fe ₃ O ₄ @PPy@Pt catalyst. <i>Chemical Communications</i> , 2016, 52, 3038-3041. | 4.1 | 46 |
| 108 | High performance rare earth oxides LnO _x (Ln=Sc, Y, La, Ce, Pr and Nd) modified Pt/C electrocatalysts for methanol electrooxidation. <i>Journal of Power Sources</i> , 2006, 162, 1067-1072. | 7.8 | 45 |

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|-----|--|------|-----------|
| 109 | TiO ₂ Nanotube Arrays Modified with Cr-Doped SrTiO ₃ Nanocubes for Highly Efficient Hydrogen Evolution under Visible Light. <i>Chemistry - A European Journal</i> , 2014, 20, 2654-2662. | 3.3 | 45 |
| 110 | Photo-catalytic H ₂ evolution over a series of Keggin-structure heteropoly blue sensitized Pt/TiO ₂ under visible light irradiation. <i>Applied Surface Science</i> , 2009, 255, 4378-4383. | 6.1 | 44 |
| 111 | Ion exchange synthesis of PAN/Ag ₃ PO ₄ core-shell nanofibers with enhanced photocatalytic properties. <i>Journal of Materials Chemistry A</i> , 2014, 2, 1668-1671. | 10.3 | 44 |
| 112 | High efficient solar hydrogen generation by modulation of Co-Ni sulfide (220) surface structure and adjusting adsorption hydrogen energy. <i>Applied Catalysis B: Environmental</i> , 2017, 206, 353-363. | 20.2 | 44 |
| 113 | Stable core-shell ZIF-8@ZIF-67 MOFs photocatalyst for highly efficient degradation of organic pollutant and hydrogen evolution. <i>Journal of Materials Research</i> , 2021, 36, 602-614. | 2.6 | 44 |
| 114 | Modification of TiO ₂ with sulfate and phosphate for enhanced eosin Y-sensitized hydrogen evolution under visible light illumination. <i>Photochemical and Photobiological Sciences</i> , 2013, 12, 1903-1910. | 2.9 | 42 |
| 115 | Promoted photoinduced charge separation and directional electron transfer over dispersible xanthene dyes sensitized graphene sheets for efficient solar H ₂ evolution. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 2106-2116. | 7.1 | 42 |
| 116 | Influence of the pore structure of CeO ₂ supports on the surface texture and catalytic activity for CO oxidation. <i>CrystEngComm</i> , 2014, 16, 5189. | 2.6 | 42 |
| 117 | Inhibition of hydrogen and oxygen reverse recombination reaction over Pt/TiO ₂ by F ⁻ ions and its impact on the photocatalytic hydrogen formation. <i>Journal of Catalysis</i> , 2017, 353, 162-170. | 6.2 | 42 |
| 118 | Surface spintronics enhanced photo-catalytic hydrogen evolution: Mechanisms, strategies, challenges and future. <i>Applied Surface Science</i> , 2018, 434, 643-668. | 6.1 | 42 |
| 119 | Morphology-dependent activity of silver nanostructures towards the electro-oxidation of formaldehyde. <i>Electrochemistry Communications</i> , 2009, 11, 1255-1258. | 4.7 | 41 |
| 120 | Structural-Dependent Photoactivities of TiO ₂ Nanoribbon for Visible-Light-Induced H ₂ Evolution: The Roles of Nanocavities and Alternate Structures. <i>Langmuir</i> , 2010, 26, 447-455. | 3.5 | 41 |
| 121 | Improvement of Cu/Zn-based catalysts by nickel additive in methanol decomposition. <i>Applied Catalysis A: General</i> , 2002, 225, 77-86. | 4.3 | 40 |
| 122 | The spin-orbit coupling induced spin flip and its role in the enhancement of the photocatalytic hydrogen evolution over iodinated graphene oxide. <i>Carbon</i> , 2016, 108, 215-224. | 10.3 | 39 |
| 123 | Photosensitized reduction of water to hydrogen using novel Maya blue-like organic-inorganic hybrid material. <i>Journal of Colloid and Interface Science</i> , 2009, 333, 285-293. | 9.4 | 38 |
| 124 | NaCl-assisted low temperature synthesis of layered Zn-In-S photocatalyst with high visible-light activity for hydrogen evolution. <i>RSC Advances</i> , 2012, 2, 3458. | 3.6 | 38 |
| 125 | The dual functional roles of Ru as co-catalyst and stabilizer of dye for photocatalytic hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 5824-5830. | 7.1 | 38 |
| 126 | Energy transfer in covalent organic frameworks for visible-light-induced hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 11872-11876. | 7.1 | 38 |

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|-----|---|------|-----------|
| 127 | Steam Reforming of Acetic Acid to Hydrogen over Fe-Co Catalyst. Chemistry Letters, 2006, 35, 452-453. | 1.3 | 37 |
| 128 | High efficient photocatalytic hydrogen evolution from formaldehyde over sensitized Ag@Ag-Pd alloy catalyst under visible light irradiation. Applied Catalysis B: Environmental, 2018, 237, 563-573. | 20.2 | 37 |
| 129 | The regulating effects of cobalt addition on the catalytic properties of silica-supported Ni-Co bimetallic catalysts for CO ₂ methanation. Reaction Kinetics, Mechanisms and Catalysis, 2014, 113, 101-113. | 1.7 | 36 |
| 130 | Modulating photogenerated electron transfer with selectively exposed Co-Mo facets on a novel amorphous g-C ₃ N ₄ /Co _x Mo _{1-x} S ₂ photocatalyst. RSC Advances, 2016, 6, 23709-23717. | 3.6 | 36 |
| 131 | A two-pronged strategy to enhance visible-light-driven overall water splitting via visible-to-ultraviolet upconversion coupling with hydrogen-oxygen recombination inhibition. Applied Catalysis B: Environmental, 2017, 212, 23-31. | 20.2 | 36 |
| 132 | Studies on photocatalytic activity of zinc ferrite catalysts synthesized by shock waves. Materials Research Bulletin, 1996, 31, 1049-1056. | 5.2 | 35 |
| 133 | High performance rare earth oxides LnO _x (Ln=La, Ce, Nd, Sm and Dy)-modified Pt/SiO ₂ catalysts for CO oxidation in the presence of H ₂ . Journal of Power Sources, 2008, 181, 120-126. | 7.8 | 35 |
| 134 | Hydrogen feed gas purification over bimetallic Cu-Pd catalysts - Effects of copper precursors on CO oxidation. International Journal of Hydrogen Energy, 2010, 35, 7253-7260. | 7.1 | 35 |
| 135 | Fabrication of Ag ₃ PO ₄ -PAN composite nanofibers for photocatalytic applications. CrystEngComm, 2013, 15, 4802. | 2.6 | 35 |
| 136 | Iodide ions control galvanic replacement growth of uniform rhodium nanotubes at room temperature. Chemical Communications, 2008, , 6402. | 4.1 | 34 |
| 137 | An Anthracene-Based Chemosensor for Multiple Logic Operations at the Molecular Level. Journal of Physical Chemistry C, 2009, 113, 2541-2546. | 3.1 | 34 |
| 138 | NIR light driven catalytic hydrogen generation over semiconductor photocatalyst coupling up-conversion component. Applied Catalysis B: Environmental, 2019, 257, 117908. | 20.2 | 33 |
| 139 | The effect of plasma pre-treatment of carbon used as a Pt catalyst support for methanol electrooxidation. Carbon, 2007, 45, 41-46. | 10.3 | 32 |
| 140 | Composition, morphology and photocatalytic activity of Zn-In-S composite synthesized by a NaCl-assisted hydrothermal method. CrystEngComm, 2011, 13, 4770. | 2.6 | 32 |
| 141 | Fabrication and behaviors of CdS on Bi ₂ MoO ₆ thin film photoanodes. RSC Advances, 2017, 7, 10774-10781. | 3.6 | 32 |
| 142 | One pot synthesis of a highly efficient mesoporous ceria-titanium catalyst for selective catalytic reduction of NO. RSC Advances, 2016, 6, 76556-76567. | 3.6 | 31 |
| 143 | Oxidized multiwalled carbon nanotubes coated fibers for headspace solid-phase microextraction of amphetamine-type stimulants in human urine. Forensic Science International, 2018, 290, 49-55. | 2.2 | 31 |
| 144 | Size effect of gold nanoparticles on the electrocatalytic oxidation of carbon monoxide in alkaline solution. Journal of Nanoparticle Research, 2007, 9, 1145-1151. | 1.9 | 29 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 145 | Morphological controlled synthesis and catalytic activities of gold nanocrystals. <i>Materials Letters</i> , 2008, 62, 2696-2699. | 2.6 | 29 |
| 146 | Improving catalytic activity and stability by in-situ regeneration of Ni-based catalyst for hydrogen production from ethanol steam reforming via controlling of active species dispersion. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 13993-14002. | 7.1 | 29 |
| 147 | The effect of K addition on Au/activated carbon for CO selective oxidation in hydrogen-rich gas. <i>Catalysis Letters</i> , 2007, 115, 46-51. | 2.6 | 27 |
| 148 | Controlled synthesis of pentagonal gold nanotubes at room temperature. <i>Nanotechnology</i> , 2008, 19, 275306. | 2.6 | 27 |
| 149 | Electrocatalytic oxidation of carbon monoxide on platinum-modified polyaniline film electrodes. <i>Thin Solid Films</i> , 2006, 497, 309-314. | 1.8 | 26 |
| 150 | Synthesis and characterization of high performance Pt-(PrxCeyOz)/C catalysts for methanol electrooxidation. <i>Applied Catalysis B: Environmental</i> , 2008, 79, 1-7. | 20.2 | 26 |
| 151 | Hydrogen Evolution Over Heteropoly Blue-Sensitized Pt/TiO ₂ Under Visible Light Irradiation. <i>Catalysis Letters</i> , 2009, 127, 319-322. | 2.6 | 26 |
| 152 | Efficient generation of hydrogen from biomass without carbon monoxide at room temperature " Formaldehyde to hydrogen catalyzed by Ag nanocrystals. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 7177-7182. | 7.1 | 25 |
| 153 | Construction of MÃblius-strip-like graphene for highly efficient charge transfer and high active hydrogen evolution. <i>Journal of Catalysis</i> , 2017, 354, 258-269. | 6.2 | 25 |
| 154 | Visible light driven water splitting over CaTiO ₃ /Pr ³⁺ -Y ₂ SiO ₅ /RGO catalyst in reactor equipped artificial gill. <i>Applied Catalysis B: Environmental</i> , 2018, 224, 553-562. | 20.2 | 25 |
| 155 | Research Progresses in the Preparation of Co-based Catalyst Derived from Co-MOFs and Application in the Catalytic Oxidation Reaction. <i>Catalysis Surveys From Asia</i> , 2019, 23, 64-89. | 2.6 | 25 |
| 156 | The activity enhancement of photocatalytic water splitting by F- pre-occupation on Pt(100) and Pt(111) co-catalyst facets. <i>Applied Catalysis B: Environmental</i> , 2020, 266, 118647. | 20.2 | 25 |
| 157 | New evidence for the regulation of photogenerated electron transfer on surface potential energy controlled co-catalyst on TiO ₂ " The investigation of hydrogen production over selectively exposed Au facet on Au/TiO ₂ . <i>International Journal of Hydrogen Energy</i> , 2014, 39, 7672-7685. | 7.1 | 24 |
| 158 | Highly efficient hydrogen production from formaldehyde over Ag/Î ³ -Al ₂ O ₃ catalyst at room temperature. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 9114-9120. | 7.1 | 24 |
| 159 | Enhanced Catalytic Performance of Three-Dimensional Ordered Mesoporous Transition Metal (Co, Cu, Ni) Nanowire Arrays. <i>Journal of Catalysis</i> , 2017, 354, 258-269. | 2.6 | 24 |
| 160 | Noble-metal-free NiSn _x O _y decorated graphene cocatalyst for highly efficient reduction of water to hydrogen. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 9634-9641. | 7.1 | 24 |
| 161 | Fivefold Enhanced Photoelectrochemical Properties of ZnO Nanowire Arrays Modified with C ₃ N ₄ Quantum Dots. <i>Catalysis</i> , 2017, 7, 99. | 3.5 | 24 |
| 162 | Controlled synthesis and photocatalytic investigation of different-shaped one-dimensional titanic acid nanomaterials. <i>Journal of Power Sources</i> , 2008, 185, 577-583. | 7.8 | 23 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 163 | Steam reforming of bio-oil derived small organics over the Ni/Al ₂ O ₃ catalyst prepared by an impregnation-reduction method. <i>Catalysis Communications</i> , 2014, 55, 74-77. | 3.3 | 23 |
| 164 | The roles of various Ni species over SnO ₂ in enhancing the photocatalytic properties for hydrogen generation under visible light irradiation. <i>Applied Surface Science</i> , 2014, 305, 235-241. | 6.1 | 23 |
| 165 | Recent Progress on Establishing Structure-Activity Relationship of Catalysts for Selective Catalytic Reduction (SCR) of NO _x with NH ₃ . <i>Catalysis Surveys From Asia</i> , 2018, 22, 1-19. | 2.6 | 23 |
| 166 | High performance phosphorus-modified ZSM-5 zeolite for butene catalytic cracking. <i>Korean Journal of Chemical Engineering</i> , 2010, 27, 812-815. | 2.7 | 22 |
| 167 | Visible light induced CO ₂ reduction and Rh B decolorization over electrostatic-assembled AgBr/palygorskite. <i>Journal of Colloid and Interface Science</i> , 2012, 377, 277-283. | 9.4 | 22 |
| 168 | Rhodium tin composite oxides co-catalyst for high efficient photocatalytic hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 9061-9068. | 7.1 | 22 |
| 169 | Graphene-induced spatial charge separation for selective water splitting over TiO ₂ photocatalyst. <i>Catalysis Communications</i> , 2016, 80, 28-32. | 3.3 | 22 |
| 170 | Steam reforming of acetic acid over Cu Zn Co catalyst for hydrogen generation: Synergistic effects of the metal species. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 13960-13969. | 7.1 | 21 |
| 171 | Behavior of borate complex anion on the stabilities and the hydrogen evolutions of Zn _x Co _{3-x} O ₄ decorated graphene. <i>Superlattices and Microstructures</i> , 2015, 82, 599-611. | 3.1 | 20 |
| 172 | The enhancement of electron transportation and photo-catalytic activity for hydrogen generation by introducing spin-polarized current into dye-sensitized photo-catalyst. <i>Catalysis Science and Technology</i> , 2016, 6, 7693-7697. | 4.1 | 20 |
| 173 | Homostructural Ta ₃ N ₅ nanotube/nanoparticle photoanodes for highly efficient solar-driven water splitting. <i>Applied Catalysis B: Environmental</i> , 2020, 277, 119217. | 20.2 | 20 |
| 174 | Fe ₂ S ₂ nano-clusters catalyze water splitting by removing formed oxygen using aid of an artificial gill under visible light. <i>Journal of Catalysis</i> , 2017, 352, 572-578. | 6.2 | 19 |
| 175 | Enhancing photoactivity for hydrogen generation by electron tunneling via flip-flop hopping over MA η bis strip-like RGO. <i>Applied Catalysis B: Environmental</i> , 2017, 219, 501-510. | 20.2 | 19 |
| 176 | Morphology-controlled Preparation of Silver Nanocrystals and Their Application in Catalysis. <i>Chemistry Letters</i> , 2008, 37, 514-515. | 1.3 | 18 |
| 177 | Tunable photocatalytic selectivity and stability of Ba-doped Ag ₃ PO ₄ hollow nanosheets. <i>Chinese Journal of Catalysis</i> , 2015, 36, 1587-1595. | 14.0 | 18 |
| 178 | Significant Effect of Pressure on the H ₂ Releasing from Photothermal-Catalytic Water Steam Splitting over TiSi ₂ and Pt/TiO ₂ . <i>Catalysis Letters</i> , 2008, 125, 376-379. | 2.6 | 17 |
| 179 | Graphene supported Co-Mo-P catalyst for efficient photocatalyzed hydrogen generation. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 6706-6712. | 7.1 | 17 |
| 180 | A molecular half-subtractor based on a fluorescence and absorption dual-modal sensor for copper ions. <i>Tetrahedron Letters</i> , 2008, 49, 5676-5679. | 1.4 | 16 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 181 | The Inhibition Effect of Potassium Addition on Methane Formation in Steam Reforming of Acetic Acid over Alumina-supported Cobalt Catalysts. <i>Chemistry Letters</i> , 2008, 37, 614-615. | 1.3 | 16 |
| 182 | Enhancing water splitting activity by protecting hydrogen evolution activity site from poisoning of oxygen species. <i>Applied Catalysis B: Environmental</i> , 2019, 249, 138-146. | 20.2 | 16 |
| 183 | 980 nm NIR light driven overall water splitting over a combined CdS@RGO@NaYF ₄ @Yb ³⁺ /Er ³⁺ photocatalyst. <i>Catalysis Science and Technology</i> , 2020, 10, 2389-2397. | 4.1 | 16 |
| 184 | Promotion effect of lanthanum addition on the catalytic activity of zirconia supported platinum and tungstophosphoric acid catalyst for n-pentane isomerization. <i>Applied Surface Science</i> , 2009, 255, 6504-6507. | 6.1 | 15 |
| 185 | Enhancement of Pt@Ru catalytic activity for catalytic wet air oxidation of methylamine via tuning the Ru surface chemical state and dispersion by Pt addition. <i>RSC Advances</i> , 2014, 4, 15325-15331. | 3.6 | 15 |
| 186 | Influence of pore structures of a carbon support on the surface textures of a CO oxidation catalyst. <i>RSC Advances</i> , 2015, 5, 59666-59676. | 3.6 | 15 |
| 187 | Structural and Textural Characteristics of Zn-Containing ZSM-5 Zeolites and Application for the Selective Catalytic Reduction of NO _x with NH ₃ at High Temperatures. <i>Catalysis Surveys From Asia</i> , 2016, 20, 41-52. | 2.6 | 15 |
| 188 | Synthesis and properties of strontium ferrite ultrafine powders. <i>Journal of Materials Science Letters</i> , 1996, 15, 397-399. | 0.5 | 15 |
| 189 | Influence of hydrogen bonds on charge distribution and conformation of l-arginine. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2007, 67, 368-371. | 3.9 | 14 |
| 190 | Three-input chemical logic circuits based on a new fluorescent sensor for ATP and Cu ²⁺ in aqueous solution. <i>Sensors and Actuators B: Chemical</i> , 2008, 133, 617-621. | 7.8 | 14 |
| 191 | Regulating Role of Cobalt Oxide on Deleterious Chlorine Ion over PdO/SiO ₂ for CO Oxidation. <i>Journal of Physical Chemistry C</i> , 2009, 113, 17070-17075. | 3.1 | 14 |
| 192 | Ln _x Pd _y Ti _{1-x-y} O ₆ Catalysts: Formation of Oxygen Vacancy and Identification of the Active Site for CO Oxidation. <i>Journal of Physical Chemistry C</i> , 2009, 113, 4161-4167. | 3.1 | 14 |
| 193 | Enhanced Surface Electron Transfer with the Aid of Methyl Viologen on the Co ₃ O ₄ -g-C ₃ N ₄ Photocatalyst. <i>Chemistry Letters</i> , 2016, 45, 116-118. | 1.3 | 14 |
| 194 | Inhibition of hydrogen and oxygen recombination over amide@functionalized graphene and the enhancement of photocatalytic hydrogen generation in dye@sensitized AF@RGO/Pt photocatalyst dispersion. <i>Applied Catalysis B: Environmental</i> , 2018, 232, 371-383. | 20.2 | 14 |
| 195 | TiO ₂ protection layer and well-matched interfaces enhance the stability of Cu ₂ ZnSnS ₄ /CdS/TiO ₂ for visible light driven water splitting. <i>Catalysis Science and Technology</i> , 2021, 11, 5505-5517. | 4.1 | 14 |
| 196 | Preparation of SiO ₂ -Pt-CdS composite photocatalyst and its photocatalytic activity for hydrogen evolution under visible light. <i>Reaction Kinetics and Catalysis Letters</i> , 2008, 95, 185-192. | 0.6 | 13 |
| 197 | Hard-template synthesis of three-dimensional mesoporous Cu@Ce based catalysts with tunable architectures and their application in the CO catalytic oxidation. <i>RSC Advances</i> , 2016, 6, 64247-64257. | 3.6 | 13 |
| 198 | Inhibition of the excited-state Rose Bengal (RB) nonradiative process by introducing DMSO for highly efficient photocatalytic hydrogen evolution. <i>RSC Advances</i> , 2016, 6, 29538-29544. | 3.6 | 13 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 199 | Co/P/graphene alloy catalysts doped with Cu and Ni for efficient photocatalytic hydrogen generation. <i>New Journal of Chemistry</i> , 2017, 41, 13804-13811. | 2.8 | 13 |
| 200 | Controlled Synthesis of TiO ₂ Shape and Effect on the Catalytic Performance for Selective Catalytic Reduction of NO _x with NH ₃ . <i>Catalysis Surveys From Asia</i> , 2018, 22, 105-117. | 2.6 | 13 |
| 201 | Hydrogen generation from toxic formaldehyde catalyzed by low-cost Pd-Sn alloys driven by visible light. <i>Journal of Materials Chemistry A</i> , 2020, 8, 9616-9628. | 10.3 | 13 |
| 202 | A new method to construct hierarchical ZSM-5 zeolites with excellent catalytic activity. <i>Journal of Porous Materials</i> , 2014, 21, 957-965. | 2.6 | 12 |
| 203 | Modulation of HCHO, H ₂ O and H adsorption on AgPd cocatalyst by optimizing of selective exposed facet to enhancing the efficiency of conversion toxic formaldehyde into hydrogen driven by visible light. <i>Journal of Catalysis</i> , 2019, 375, 493-506. | 6.2 | 12 |
| 204 | pH induced size-selected synthesis of PtRu nanoparticles, their characterization and electrocatalytic properties. <i>Journal of Molecular Catalysis A</i> , 2007, 265, 42-49. | 4.8 | 11 |
| 205 | Study of One Step Synthesis of Rare Earth Zeolite (Ln-ZSM-5) and Application for Low Temperature CO Catalytic Oxidation. <i>Catalysis Surveys From Asia</i> , 2013, 17, 147-155. | 2.6 | 11 |
| 206 | Skeletal Isomerization of n-Pentane over Platinum-Promoted Tungstophosphoric Acid Supported on MCM-41. <i>Catalysis Letters</i> , 2008, 125, 83-89. | 2.6 | 10 |
| 207 | Differential effects of Mg(ii) and N ^ε -4-tosyl-L-arginine methyl ester hydrochloride on the recognition and catalysis in ATP hydrolysis. <i>Dalton Transactions</i> , 2008, , 1081-1086. | 3.3 | 10 |
| 208 | Photocatalytic Materials. <i>International Journal of Photoenergy</i> , 2012, 2012, 1-5. | 2.5 | 10 |
| 209 | Effect of Different Pore Structures on the Surface Textures of the Cu-Doped CeO ₂ Catalysts and Applied for CO Catalytic Oxidation. <i>Catalysis Surveys From Asia</i> , 2015, 19, 129-139. | 2.6 | 10 |
| 210 | Enantiomer-selective sensing and the light response of chiral molecules coated with a persistent luminescent material. <i>Chemical Communications</i> , 2019, 55, 13390-13393. | 4.1 | 10 |
| 211 | Control Reaction Path of CO Oxidation by Regulating the Oxidation State of Au Species. <i>Catalysis Letters</i> , 2010, 134, 72-77. | 2.6 | 8 |
| 212 | Surface texture and physicochemical characterization of mesoporous carbon @ wrapped Pd-Fe catalysts for low-temperature CO catalytic oxidation. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 29027-29035. | 2.8 | 8 |
| 213 | Epoxidation of Î ² -ionone using molecular oxygen over Pt/MCM-41 catalyst under mild conditions. <i>Catalysis Letters</i> , 2007, 117, 126-129. | 2.6 | 7 |
| 214 | A Highly Effective Pt and H ₃ PW ₁₂ O ₄₀ Modified Zirconium Oxide Metal-Acid Bifunctional Catalyst for Skeletal Isomerization: Preparation, Characterization and Catalytic Behavior Study. <i>Catalysis Letters</i> , 2008, 125, 340-347. | 2.6 | 7 |
| 215 | Spectroscopy study on the noncovalent interactions in the binary and ternary systems of L-lysine, adenosine 5'-triphosphate and magnesium ions. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011, 78, 1305-1309. | 3.9 | 7 |
| 216 | Low temperature carbon monoxide catalytic oxidation at the Pd/Ce-Zr-Al-Ox catalyst. <i>Journal of Sol-Gel Science and Technology</i> , 2013, 66, 526-532. | 2.4 | 7 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 217 | Deposition of Pd@Fe nanoparticles onto carbon spheres with controllable diameters and applied for CO catalytic oxidation. RSC Advances, 2014, 4, 23262-23270. | 3.6 | 7 |
| 218 | High-temperature steam reforming of bio-oil derived light organics and methane to hydrogen-rich gas with trace CO via rational temperature control. RSC Advances, 2014, 4, 18924-18929. | 3.6 | 7 |
| 219 | Study of catalytic activity and product selectivity of M/Al ₂ O ₃ -CeO ₂ (M = Pt-Ru, Ru, and Pt) in catalytic wet air oxidation of methylamine. Chinese Journal of Catalysis, 2014, 35, 1212-1223. | 14.0 | 7 |
| 220 | Synthesis of High Dispersion and Uniform Nano-sized Flame Retardant-Used Hexagonal Mg(OH) ₂ . Journal of Cluster Science, 2016, 27, 1831-1841. | 3.3 | 7 |
| 221 | Ultrasonic assisted rapid synthesis of high uniform super-paramagnetic microspheres with core-shell structure and robust magneto-chromatic ability. Journal of Magnetism and Magnetic Materials, 2017, 426, 1-10. | 2.3 | 7 |
| 222 | Improved Light Harvesting and Efficiency for Overall Water Splitting by Embedding TiO ₂ Transition Layer in GaP/Ga ₂ O ₃ /Ga ₂ Se ₃ Multijunction Photocatalyst. Solar Rrl, 2021, 5, 2000619. | 5.8 | 7 |
| 223 | Kinetic and mechanism study on photocatalytic detoxification of Cr(VI) ions on TiO ₂ catalyst. Toxicological and Environmental Chemistry, 1999, 70, 333-347. | 1.2 | 6 |
| 224 | Butene catalytic cracking to ethylene and propylene on fluorinated ZSM-5-based catalyst. Reaction Kinetics, Mechanisms and Catalysis, 2013, 108, 231-239. | 1.7 | 6 |
| 225 | Ice core dust particulate by XPS-SEM/EDAX. Science Bulletin, 1999, 44, 1424-1427. | 1.7 | 5 |
| 226 | Interaction of cationic vesicle with ribonucleotides (AMP, ADP, and ATP) and physicochemical characterization of DODAB/ribonucleotides complexes. Biophysical Chemistry, 2007, 127, 19-27. | 2.8 | 4 |
| 227 | The Evidences of Morphology Dependent Electroactivity Toward CO Oxidation over Bismuth Oxide Supported Pt. Catalysis Letters, 2010, 135, 114-119. | 2.6 | 4 |
| 228 | Preparation of Co-Pd bimetallic nanoparticles encapsulated in bamboo-like N-doped mesoporous carbon by a facile one-pot method for green Suzuki coupling. Research on Chemical Intermediates, 2019, 45, 3809-3821. | 2.7 | 4 |
| 229 | Generation of enhanced stability of SnO/In(OH) ₃ /InP for photocatalytic water splitting by SnO protection layer. Frontiers in Energy, 2021, 15, 710-720. | 2.3 | 4 |
| 230 | Boron substitution enhanced activity of B _x Ga _{1-x} As/GaAs photocatalyst for water splitting. Applied Catalysis B: Environmental, 2022, 300, 120690. | 20.2 | 4 |
| 231 | The Support Effect over Pt@H ₃ PW ₁₂ O ₄₀ Based Metal-Acid Bifunctional Catalysts on the Catalytic Performance in n-Pentane Isomerization. Catalysis Letters, 2009, 129, 215-221. | 2.6 | 3 |
| 232 | Catalytic wet oxidation of aqueous methylamine: comparative study on the catalytic performance of platinum@ruthenium, platinum, and ruthenium catalysts supported on titania. Environmental Technology (United Kingdom), 2015, 36, 1160-1166. | 2.2 | 3 |
| 233 | Preparation and Catalytic Activity of Two-dimensionally Networked Gold Nanowires. Chemistry Letters, 2006, 35, 914-915. | 1.3 | 2 |
| 234 | A Calcium(II)-Based L-Arginine for ATP Binding and Hydrolysis. Journal of Inorganic and Organometallic Polymers and Materials, 2008, 18, 435-440. | 3.7 | 2 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 235 | Pivotal Role of Chirality in Photoelectrocatalytic (PEC) Water Splitting. <i>Current Chinese Science</i> , 2021, 1, 115-121. | 0.5 | 1 |
| 236 | Seizing solar hydrogen from water promoted by magic spin transporting, chiral-induced spin stateâ€ selective filtering, and upconversion. , 2020, , 191-209. | | 0 |