

# Tsunehiro Tanaka

## List of Publications by Year in descending order

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187  
papers

9,088  
citations

38742  
50  
h-index

48315  
88  
g-index

194  
all docs

194  
docs citations

194  
times ranked

9977  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Thermally stable single atom Pt/m-Al <sub>2</sub> O <sub>3</sub> for selective hydrogenation and CO oxidation. Nature Communications, 2017, 8, 16100.   | 12.8 | 545       |
| 2  | Ultrathin rhodium nanosheets. Nature Communications, 2014, 5, 3093.   | 12.8 | 428       |
| 3  | A Series of NiM (M = Ru, Rh, and Pd) Bimetallic Catalysts for Effective Lignin Hydrogenolysis in Water. ACS Catalysis, 2014, 4, 1574-1583.  | 11.2 | 421       |
| 4  | Photocatalytic Conversion of CO <sub>2</sub> in Water over Layered Double Hydroxides. Angewandte Chemie - International Edition, 2012, 51, 8008-8011.   | 13.8 | 291       |
| 5  | Selective Amine Oxidation Using Nb <sub>2</sub> O <sub>5</sub> Photocatalyst and O <sub>2</sub> . ACS Catalysis, 2011, 1, 1150-1153.  | 11.2 | 258       |
| 6  | X-ray absorption (EXAFS/XANES) study of supported vanadium oxide catalysts. Structure of surface vanadium oxide species on silica and $\gamma$ -alumina at a low level of vanadium loading. Journal of the Chemical Society Faraday Transactions I, 1988, 84, 2987. | 1.0  | 238       |
| 7  | Photocatalytic Reduction of CO <sub>2</sub> to CO in the Presence of H <sub>2</sub> or CH <sub>4</sub> as a Reductant over MgO. Journal of Physical Chemistry B, 2004, 108, 346-354.  | 2.6  | 237       |
| 8  | Adsorbed Species of CO <sub>2</sub> and H <sub>2</sub> on Ga <sub>2</sub> O <sub>3</sub> for the Photocatalytic Reduction of CO <sub>2</sub> . Journal of Physical Chemistry C, 2010, 114, 8892-8898.   | 3.1  | 181       |
| 9  | In situ spectroscopy-guided engineering of rhodium single-atom catalysts for CO oxidation. Nature Communications, 2019, 10, 1330.   | 12.8 | 177       |
| 10 | Zeolite-Encaged Pd-Mn Nanocatalysts for CO <sub>2</sub> Hydrogenation and Formic Acid Dehydrogenation. Angewandte Chemie - International Edition, 2020, 59, 20183-20191.  | 13.8 | 175       |
| 11 | Catalytic amino acid production from biomass-derived intermediates. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 5093-5098.  | 7.1  | 168       |
| 12 | XAFS Study of Tungsten L <sub>1</sub> - and L <sub>3</sub> -Edges: Structural Analysis of WO <sub>3</sub> Species Loaded on TiO <sub>2</sub> as a Catalyst for Photo-oxidation of NH <sub>3</sub> . Journal of Physical Chemistry C, 2008, 112, 6869-6879.          | 3.1  | 161       |
| 13 | Effect of Ti <sup>3+</sup> Ions and Conduction Band Electrons on Photocatalytic and Photoelectrochemical Activity of Rutile Titania for Water Oxidation. Journal of Physical Chemistry C, 2016, 120, 6467-6474.   | 3.1  | 147       |
| 14 | Photocatalytic reduction of CO <sub>2</sub> using H <sub>2</sub> as reductant over ATaO <sub>3</sub> photocatalysts (A = Li, Na, K). Applied Catalysis B: Environmental, 2010, 96, 565-568.   | 20.2 | 135       |
| 15 | Photocatalytic conversion of CO <sub>2</sub> in water over Ag-modified La <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> . Applied Catalysis B: Environmental, 2015, 163, 241-247.   | 20.2 | 133       |
| 16 | Deconvolution Analysis of Ga K-Edge XANES for Quantification of Gallium Coordinations in Oxide Environments. Journal of Physical Chemistry B, 1998, 102, 10190-10195.   | 2.6  | 128       |
| 17 | A Doping Technique that Suppresses Undesirable H <sub>2</sub> Evolution Derived from Overall Water Splitting in the Highly Selective Photocatalytic Conversion of CO <sub>2</sub> in and by Water. Chemistry - A European Journal, 2014, 20, 9906-9909.             | 3.3  | 119       |
| 18 | Photoreduction of CO <sub>2</sub> with H <sub>2</sub> over ZrO <sub>2</sub> . A study on interaction of hydrogen with photoexcited CO <sub>2</sub> . Physical Chemistry Chemical Physics, 2000, 2, 2635-2639.   | 2.8  | 117       |

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 19 | Metal-Dependent Support Effects of Oxyhydride-Supported Ru, Fe, Co Catalysts for Ammonia Synthesis. <i>Advanced Energy Materials</i> , 2018, 8, 1801772.   | 19.5 | 111       |
| 20 | Effect of H <sub>2</sub> gas as a reductant on photoreduction of CO <sub>2</sub> over a Ga <sub>2</sub> O <sub>3</sub> photocatalyst. <i>Chemical Physics Letters</i> , 2008, 467, 191-194.  | 2.6  | 109       |
| 21 | Highly efficient photocatalytic conversion of CO <sub>2</sub> into solid CO using H <sub>2</sub> O as a reductant over Ag-modified ZnGa <sub>2</sub> O <sub>4</sub> . <i>Journal of Materials Chemistry A</i> , 2015, 3, 11313-11319.  | 10.3 | 103       |
| 22 | Analysis of XANES for identification of highly dispersed transition metal oxides on supports. <i>Catalysis Letters</i> , 1992, 12, 277-285.  | 2.6  | 102       |
| 23 | Mechanism of Photooxidation of Alcohol over Nb <sub>2</sub> O <sub>5</sub> . <i>Journal of Physical Chemistry C</i> , 2009, 113, 18713-18718.  | 3.1  | 102       |
| 24 | Photoreduction of carbon dioxide by hydrogen over magnesium oxide. <i>Physical Chemistry Chemical Physics</i> , 2001, 3, 1108-1113.  | 2.8  | 101       |
| 25 | Reaction mechanism in the photoreduction of CO <sub>2</sub> with CH <sub>4</sub> over ZrO <sub>2</sub> . <i>Physical Chemistry Chemical Physics</i> , 2000, 2, 5302-5307.  | 2.8  | 97        |
| 26 | Tuning the selectivity toward CO evolution in the photocatalytic conversion of CO <sub>2</sub> with H <sub>2</sub> O through the modification of Ag-loaded Ga <sub>2</sub> O <sub>3</sub> with a ZnGa <sub>2</sub> O <sub>4</sub> layer. <i>Catalysis Science and Technology</i> , 2016, 6, 1025-1032. | 4.1  | 94        |
| 27 | Supported Tantalum Oxide Catalysts: Synthesis, Physical Characterization, and Methanol Oxidation Chemical Probe Reaction. <i>Journal of Physical Chemistry B</i> , 2003, 107, 5243-5250.   | 2.6  | 93        |
| 28 | Modification of Metal Nanoparticles with TiO <sub>2</sub> and Metal-Support Interaction in Photodeposition. <i>ACS Catalysis</i> , 2011, 1, 187-192.   | 11.2 | 88        |
| 29 | Highly selective photocatalytic conversion of CO <sub>2</sub> by water over Ag-loaded SrNb <sub>2</sub> O <sub>6</sub> nanorods. <i>Applied Catalysis B: Environmental</i> , 2017, 218, 770-778.   | 20.2 | 86        |
| 30 | Study on the Dispersion of Nickel Ions in the NiO-MgO System by X-ray Absorption Fine Structure. <i>The Journal of Physical Chemistry</i> , 1996, 100, 2302-2309.  | 2.9  | 85        |
| 31 | Elucidating strong metal-support interactions in Pt-Sn/SiO <sub>2</sub> catalyst and its consequences for dehydrogenation of lower alkanes. <i>Journal of Catalysis</i> , 2018, 365, 277-291.  | 6.2  | 84        |
| 32 | Identification and reactivity of a surface intermediate in the photoreduction of CO <sub>2</sub> with H <sub>2</sub> over ZrO <sub>2</sub> . <i>Journal of the Chemical Society, Faraday Transactions</i> , 1998, 94, 1875-1880.   | 1.7  | 81        |
| 33 | One-electron reducibility of isolated copper oxide on alumina for selective NO-CO reaction. <i>Applied Catalysis B: Environmental</i> , 2006, 64, 282-289.   | 20.2 | 77        |
| 34 | Effect of the chloride ion as a hole scavenger on the photocatalytic conversion of CO <sub>2</sub> in an aqueous solution over Ni-Al layered double hydroxides. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 17995-18003.  | 2.8  | 76        |
| 35 | A Theoretical Investigation on CO Oxidation by Single-Atom Catalysts M <sub>1</sub> /Al <sub>2</sub> O <sub>3</sub> (M=Pd, Fe, Co, and Ni). <i>ChemCatChem</i> , 2017, 9, 1222-1229. <sup>3.7</sup>  |      | 76        |
| 36 | Structures and Acid-Base Properties of La/Al <sub>2</sub> O <sub>3</sub> Role of La Addition to Enhance Thermal Stability of $\gamma$ -Al <sub>2</sub> O <sub>3</sub> . <i>Chemistry of Materials</i> , 2003, 15, 4830-4840.   | 6.7  | 74        |

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|----|--|------|-----------|
| 37 | NO reduction with CO in the presence of O <sub>2</sub> over Al <sub>2</sub> O <sub>3</sub> -supported and Cu-based catalysts. Physical Chemistry Chemical Physics, 2002, 4, 2449-2458.   | 2.8  | 72        |
| 38 | Structures of Molybdenum Species in Silica-Supported Molybdenum Oxide and Alkali-Ion-Modified Silica-Supported Molybdenum Oxide. Journal of Physical Chemistry B, 1998, 102, 2960-2969.  | 2.6  | 65        |
| 39 | Liquid phase photooxidation of alcohol over niobium oxide without solvents. Catalysis Today, 2007, 120, 233-239.   | 4.4  | 65        |
| 40 | Preparation of Active Absorbent for Dry-Type Flue Gas Desulfurization from Calcium Oxide, Coal Fly Ash, and Gypsum. Industrial & Engineering Chemistry Research, 2000, 39, 1390-1396.  | 3.7  | 62        |
| 41 | Strong metal-support interaction between Pt and SiO <sub>2</sub> following high-temperature reduction: a catalytic interface for propane dehydrogenation. Chemical Communications, 2017, 53, 6937-6940.  | 4.1  | 61        |
| 42 | Reaction Mechanism of Selective Photooxidation of Amines over Niobium Oxide: Visible-Light-Induced Electron Transfer between Adsorbed Amine and Nb <sub>2</sub> O <sub>5</sub> . Journal of Physical Chemistry C, 2013, 117, 442-450.                              | 3.1  | 59        |
| 43 | Rutile titanium dioxide prepared by hydrogen reduction of Degussa P25 for highly efficient photocatalytic hydrogen evolution. Catalysis Science and Technology, 2016, 6, 5693-5699.  | 4.1  | 58        |
| 44 | XAFS study of zirconia-supported copper catalysts for the NO $\leftrightarrow$ CO reaction: Deactivation, rejuvenation and stabilization of Cu species. Journal of the Chemical Society, Faraday Transactions, 1998, 94, 3743-3752.                                | 1.7  | 57        |
| 45 | Photocatalytic Conversion of CO <sub>2</sub> by H <sub>2</sub> O over Ag-Loaded SrO-Modified Ta <sub>2</sub> O <sub>5</sub> . Bulletin of the Chemical Society of Japan, 2015, 88, 431-437.  | 3.2  | 56        |
| 46 | Effective Driving of Ag-Loaded and Al-Doped SrTiO <sub>3</sub> under Irradiation at $\lambda$ > 300 nm for the Photocatalytic Conversion of CO <sub>2</sub> by H <sub>2</sub> O. ACS Applied Energy Materials, 2020, 3, 1468-1475.                                 | 5.1  | 56        |
| 47 | Dynamic Behavior of Rh Species in Rh/Al <sub>2</sub> O <sub>3</sub> Model Catalyst during Three-Way Catalytic Reaction: An <i>in Operando</i> X-ray Absorption Spectroscopy Study. Journal of the American Chemical Society, 2018, 140, 176-184.                   | 13.7 | 55        |
| 48 | Which is an Intermediate Species for Photocatalytic Conversion of CO <sub>2</sub> by H <sub>2</sub> O as the Electron Donor: CO <sub>2</sub> Molecule, Carbonic Acid, Bicarbonate, or Carbonate Ions?. Journal of Physical Chemistry C, 2017, 121, 8711-8721.      | 3.1  | 54        |
| 49 | Modification of Ga <sub>2</sub> O <sub>3</sub> by an Ag $\leftrightarrow$ Cr core $\leftrightarrow$ shell cocatalyst enhances photocatalytic CO evolution for the conversion of CO <sub>2</sub> by H <sub>2</sub> O. Chemical Communications, 2018, 54, 1053-1056. | 4.1  | 53        |
| 50 | Effect of reduction method on the activity of Pt $\leftrightarrow$ Sn/SiO <sub>2</sub> for dehydrogenation of propane. Catalysis Today, 2014, 232, 33-39.  | 4.4  | 52        |
| 51 | Structure of Active Species in Alkali-Ion-Modified Silica-Supported Vanadium Oxide. Journal of Physical Chemistry B, 1997, 101, 9035-9040.   | 2.6  | 50        |
| 52 | Dehydrogenation of Propane over Silica-Supported Platinum-Tin Catalysts Prepared by Direct Reduction: Effects of Tin/Platinum Ratio and Reduction Temperature. ChemCatChem, 2014, 6, 2680-2691.  | 3.7  | 49        |
| 53 | Visible Light Absorbed NH <sub>2</sub> Species Derived from NH <sub>3</sub> Adsorbed on TiO <sub>2</sub> for Photoassisted Selective Catalytic Reduction. Journal of Physical Chemistry C, 2007, 111, 14189-14197.   | 3.1  | 48        |
| 54 | Popping of Graphite Oxide: Application in Preparing Metal Nanoparticle Catalysts. Advanced Materials, 2015, 27, 4688-4694.   | 21.0 | 48        |

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|----|---|------|-----------|
| 55 | Reaction Mechanism of Selective Photooxidation of Hydrocarbons over Nb <sub>2</sub> O <sub>5</sub> . Journal of Physical Chemistry C, 2011, 115, 19320-19327.   | 3.1  | 46        |
| 56 | A ZnTa <sub>2</sub> O <sub>6</sub> photocatalyst synthesized via solid state reaction for conversion of CO <sub>2</sub> into CO in water. Catalysis Science and Technology, 2016, 6, 4978-4985.                                 | 4.1  | 46        |
| 57 | Alumina-Supported Rare-Earth Oxides Characterized by Acid-Catalyzed Reactions and Spectroscopic Methods. Journal of Physical Chemistry B, 2001, 105, 1908-1916.   | 2.6  | 45        |
| 58 | Effects of reaction temperature on the photocatalytic activity of photo-SCR of NO with NH <sub>3</sub> over a TiO <sub>2</sub> photocatalyst. Catalysis Science and Technology, 2013, 3, 1771.                                  | 4.1  | 45        |
| 59 | Local Structure and La L <sub>1</sub> and L <sub>3</sub> -Edge XANES Spectra of Lanthanum Complex Oxides. Inorganic Chemistry, 2014, 53, 6048-6053.   | 4.0  | 44        |
| 60 | Structure of Mo <sup>VI</sup> /Mg Binary Oxides in Oxidized/Reduced States Studied by X-ray Absorption Spectroscopy at the Mo K Edge and Mg K Edge. The Journal of Physical Chemistry, 1996, 100, 5440-5446.                    | 2.9  | 43        |
| 61 | Photocatalytic conversion of CO <sub>2</sub> in an aqueous solution using various kinds of layered double hydroxides. Catalysis Today, 2015, 251, 140-144.  | 4.4  | 43        |
| 62 | Oxygen storage capacity of Sr <sub>3</sub> Fe <sub>2</sub> O <sub>7</sub> having high structural stability. Journal of Materials Chemistry A, 2015, 3, 13540-13545.   | 10.3 | 43        |
| 63 | Enhancement of CO Evolution by Modification of Ga <sub>2</sub> O <sub>3</sub> with Rare-Earth Elements for the Photocatalytic Conversion of CO <sub>2</sub> by H <sub>2</sub> O. Langmuir, 2017, 33, 13929-13935.               | 3.5  | 43        |
| 64 | A nanoLDH catalyst with high CO <sub>2</sub> adsorption capability for photo-catalytic reduction. Journal of Materials Chemistry A, 2018, 6, 9684-9690.   | 10.3 | 43        |
| 65 | Physico-chemical and catalytic properties of ytterbium introduced into Y-zeolite. Journal of the Chemical Society, Faraday Transactions, 1993, 89, 3177.  | 1.7  | 41        |
| 66 | Deactivation Mechanism of Pd/CeO <sub>2</sub> –ZrO <sub>2</sub> Three-Way Catalysts Analyzed by Chassis-Dynamometer Tests and <i>in Situ</i> Diffuse Reflectance Spectroscopy. ACS Catalysis, 2019, 9, 6415-6424.               | 11.2 | 40        |
| 67 | CO <sub>2</sub> capture, storage, and conversion using a praseodymium-modified Ga <sub>2</sub> O <sub>3</sub> photocatalyst. Journal of Materials Chemistry A, 2017, 5, 19351-19357.  | 10.3 | 38        |
| 68 | Necessary and sufficient conditions for the successful three-phase photocatalytic reduction of CO <sub>2</sub> by H <sub>2</sub> O over heterogeneous photocatalysts. Physical Chemistry Chemical Physics, 2018, 20, 8423-8431. | 2.8  | 38        |
| 69 | Structural Analysis of Group V, VI, and VII Metal Compounds by XAFS. Journal of Physical Chemistry C, 2011, 115, 23653-23663.   | 3.1  | 36        |
| 70 | Investigation of the electrochemical and photoelectrochemical properties of Ni–Al LDH photocatalysts. Physical Chemistry Chemical Physics, 2016, 18, 13811-13819.   | 2.8  | 36        |
| 71 | Visible-Light Selective Photooxidation of Aromatic Hydrocarbons via Ligand-to-Metal Charge Transfer Transition on Nb <sub>2</sub> O <sub>5</sub> . Journal of Physical Chemistry C, 2017, 121, 22854-22861.                     | 3.1  | 36        |
| 72 | xTunes: A new XAS processing tool for detailed and on-the-fly analysis. Radiation Physics and Chemistry, 2020, 175, 108270.   | 2.8  | 36        |

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|----|--|------|-----------|
| 73 | Brønsted Acid Generation over Alumina-Supported Niobia by Calcination at 1173 K. <i>Catalysis Letters</i> , 2009, 129, 383-386.  | 2.6  | 35        |
| 74 | A unique photo-activation mechanism by <i>in situ</i> doping for photo-assisted selective NO reduction with ammonia over TiO <sub>2</sub> and photooxidation of alcohols over Nb <sub>2</sub> O <sub>5</sub> . <i>Catalysis Science and Technology</i> , 2011, 1, 541. | 4.1  | 35        |
| 75 | Drastic improvement in the photocatalytic activity of Ga <sub>2</sub> O <sub>3</sub> modified with Mg-Al layered double hydroxide for the conversion of CO <sub>2</sub> in water. <i>Sustainable Energy and Fuels</i> , 2017, 1, 1740-1747.                            | 4.9  | 35        |
| 76 | Title is missing!. <i>Topics in Catalysis</i> , 2002, 18, 113-118.   | 2.8  | 34        |
| 77 | Fabrication of well-shaped Sr <sub>2</sub> KTa <sub>5</sub> O <sub>15</sub> nanorods with a tetragonal tungsten bronze structure by a flux method for artificial photosynthesis. <i>Applied Catalysis B: Environmental</i> , 2016, 199, 272-281.                       | 20.2 | 34        |
| 78 | Dual Ag/Co cocatalyst synergism for the highly effective photocatalytic conversion of CO <sub>2</sub> by H <sub>2</sub> O over Al-SrTiO <sub>3</sub> . <i>Chemical Science</i> , 2021, 12, 4940-4948.  | 7.4  | 34        |
| 79 | Photoassisted NO reduction with NH <sub>3</sub> over TiO <sub>2</sub> photocatalyst. <i>Chemical Communications</i> , 2002, , 2742-2743.   | 4.1  | 33        |
| 80 | XAFS and XRD Analysis of Ceria-Zirconia Oxygen Storage Promoters for Automotive Catalysts. <i>Topics in Catalysis</i> , 2008, 47, 137-147.   | 2.8  | 33        |
| 81 | Visible-light-assisted selective catalytic reduction of NO with NH <sub>3</sub> on porphyrin derivative-modified TiO <sub>2</sub> photocatalysts. <i>Catalysis Science and Technology</i> , 2015, 5, 556-561.  | 4.1  | 33        |
| 82 | Effect of Thickness of Chromium Hydroxide Layer on Ag Cocatalyst Surface for Highly Selective Photocatalytic Conversion of CO <sub>2</sub> by H <sub>2</sub> O. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 2083-2090.                                 | 6.7  | 32        |
| 83 | Modification of photocatalytic center for photo-epoxidation of propylene by rubidium ion addition to V <sub>2</sub> O <sub>5</sub> /SiO <sub>2</sub> . <i>Catalysis Communications</i> , 2005, 6, 269-273.   | 3.3  | 30        |
| 84 | Ionic Liquid-Stabilized Single-Atom Rh Catalyst Against Leaching. <i>CCS Chemistry</i> , 2021, 3, 1814-1822.   | 7.8  | 30        |
| 85 | Effect of Calcium Sulfate Addition on the Activity of the Absorbent for Dry Flue Gas Desulfurization. <i>Energy &amp; Fuels</i> , 2001, 15, 438-443.   | 5.1  | 29        |
| 86 | Role of lattice oxygen and oxygen vacancy sites in platinum group metal catalysts supported on Sr <sub>3</sub> Fe <sub>2</sub> O <sub>7</sub> for NO-selective reduction. <i>Catalysis Science and Technology</i> , 2018, 8, 147-153.                                  | 4.1  | 29        |
| 87 | Isolated Platinum Atoms in Ni <sup>3+</sup> -Al <sub>2</sub> O <sub>3</sub> for Selective Hydrogenation of CO <sub>2</sub> toward CH <sub>4</sub> . <i>Journal of Physical Chemistry C</i> , 2019, 123, 23446-23454.   | 3.1  | 29        |
| 88 | Highly Active and Stable Pt-Sn/SBA-15 Catalyst Prepared by Direct Reduction for Ethylbenzene Dehydrogenation: Effects of Sn Addition. <i>Industrial &amp; Engineering Chemistry Research</i> , 2017, 56, 7160-7172.  | 3.7  | 28        |
| 89 | Size Controlled Synthesis of Gold Nanoparticles by Porphyrin with Four Sulfur Atoms. <i>Topics in Catalysis</i> , 2009, 52, 852-859.   | 2.8  | 27        |
| 90 | Enhanced oxygen-release/storage properties of Pd-loaded Sr <sub>3</sub> Fe <sub>2</sub> O <sub>7</sub> . <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 14107-14113.   | 2.8  | 27        |



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|-----|---|-----|-----------|
| 91  | Valence Variation of Yb Encapsulated in the Supercage of Y-Type Zeolite. Japanese Journal of Applied Physics, 1993, 32, 481.  | 1.5 | 26        |
| 92  | Oxygen Storage Property and Chemical Stability of $\text{SrFe}_{1-x}\text{Ti}_x\text{O}_{3-\delta}$ with Robust Perovskite Structure. Journal of Physical Chemistry C, 2017, 121, 19358-19364.  | 3.1 | 26        |
| 93  | Enhanced CO evolution for photocatalytic conversion of CO <sub>2</sub> by H <sub>2</sub> O over Ca modified Ga <sub>2</sub> O <sub>3</sub> . Communications Chemistry, 2020, 3, .   | 4.5 | 26        |
| 94  | Optimized Synthesis of Ag-Modified Al-Doped SrTiO <sub>3</sub> Photocatalyst for the Conversion of CO <sub>2</sub> Using H <sub>2</sub> O as an Electron Donor. ChemistrySelect, 2020, 5, 8779-8786.  | 1.5 | 26        |
| 95  | Highly Selective Photocatalytic Conversion of Carbon Dioxide by Water over Al-SrTiO <sub>3</sub> Photocatalyst Modified with Silver-Metal Dual Cocatalysts. ACS Sustainable Chemistry and Engineering, 2021, 9, 9327-9335.  | 6.7 | 26        |
| 96  | Reaction Mechanism and the Role of Copper in the Photooxidation of Alcohol over Cu/Nb <sub>2</sub> O <sub>5</sub> . ChemPhysChem, 2011, 12, 2823-2830.  | 2.1 | 24        |
| 97  | Flux method fabrication of potassium rare-earth tantalates for CO <sub>2</sub> photoreduction using H <sub>2</sub> O as an electron donor. Catalysis Today, 2018, 300, 173-182.   | 4.4 | 24        |
| 98  | Ni-Pt Alloy Nanoparticles with Isolated Pt Atoms and Their Cooperative Neighboring Ni Atoms for Selective Hydrogenation of CO <sub>2</sub> Toward CH <sub>4</sub> Evolution: <i>In Situ</i> and Transient Fourier Transform Infrared Studies. ACS Applied Nano Materials, 2020, 3, 9633-9644. | 5.0 | 24        |
| 99  | Selective reduction of NO over Cu/Al <sub>2</sub> O <sub>3</sub> : Enhanced catalytic activity by infinitesimal loading of Rh on Cu/Al <sub>2</sub> O <sub>3</sub> . Molecular Catalysis, 2017, 442, 74-82.   | 2.0 | 23        |
| 100 | NO <sub>x</sub> Oxidation and Storage Properties of a Ruddlesden-Popper-Type Sr <sub>3</sub> Fe <sub>2</sub> O <sub>7</sub> -Layered Perovskite Catalyst. ACS Applied Materials & Interfaces, 2019, 11, 26985-26993.  | 8.0 | 23        |
| 101 | In Situ Time-Resolved Energy-Dispersive XAFS Study on Reduction Behavior of Pt Supported on TiO <sub>2</sub> and Al <sub>2</sub> O <sub>3</sub> . Catalysis Letters, 2009, 131, 413-418.  | 2.6 | 22        |
| 102 | Development of Rh-Doped Ga <sub>2</sub> O <sub>3</sub> Photocatalysts for Reduction of CO <sub>2</sub> by H <sub>2</sub> O as an Electron Donor at a More than 300 nm Wavelength. Journal of Physical Chemistry C, 2018, 122, 21132-21139.  | 3.1 | 22        |
| 103 | Zeolite-Encaged Pd-Mn Nanocatalysts for CO <sub>2</sub> Hydrogenation and Formic Acid Dehydrogenation. Angewandte Chemie, 2020, 132, 20358-20366.   | 2.0 | 22        |
| 104 | Striking Oxygen-Release/Storage Properties of Fe-Site-Substituted Sr <sub>3</sub> Fe <sub>2</sub> O <sub>7</sub> . Journal of Physical Chemistry C, 2018, 122, 11186-11193.   | 3.1 | 21        |
| 105 | Structural analysis of tungsten-zirconium oxide catalyst by W K-edge and L <sub>1</sub> -edge XAFS. X-Ray Spectrometry, 2008, 37, 226-231.  | 1.4 | 19        |
| 106 | X-Ray absorption spectroscopy (EXAFS/XANES) evidence for the preferential formation of isolated VO <sub>4</sub> species on highly photoactive V <sub>2</sub> O <sub>5</sub> /SiO <sub>2</sub> catalysts. Journal of the Chemical Society Chemical Communications, 1987, , 506.                | 2.0 | 18        |
| 107 | Selective Catalytic Reduction of NO by NH <sub>3</sub> over Photocatalysts (Photo-SCR): Mechanistic Investigations and Developments. Chemical Record, 2016, 16, 2268-2277.  | 5.8 | 18        |
| 108 | Metal oxide promoted TiO <sub>2</sub> catalysts for photo-assisted selective catalytic reduction of NO with NH <sub>3</sub> . Research on Chemical Intermediates, 2008, 34, 487-494.  | 2.7 | 17        |

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|-----|--|-----|-----------|
| 109 | Control of Acid-Site Location of MFI Zeolite by Catalytic Cracking of Silane and Its Application to Olefin Synthesis from Acetone. Journal of Chemical Engineering of Japan, 2009, 42, S162-S167.  | 0.6 | 16        |
| 110 | Mechanism of NO $\leftrightarrow$ CO reaction over highly dispersed cuprous oxide on $\gamma$ -alumina catalyst using a metal $\leftrightarrow$ support interfacial site in the presence of oxygen: similarities to and differences from biological systems. Catalysis Science and Technology, 2018, 8, 3833-3845. | 4.1 | 16        |
| 111 | Role of Bicarbonate Ions in Aqueous Solution as a Carbon Source for Photocatalytic Conversion of CO <sub>2</sub> into CO. ACS Applied Energy Materials, 2019, 2, 5397-5405.  | 5.1 | 16        |
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