

# Kentaro K Teramura

## List of Publications by Year in descending order

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Version: 2024-02-01

212  
papers

13,372  
citations

31949

53  
h-index

24961

109  
g-index

228  
all docs

228  
docs citations

228  
times ranked

11975  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Photocatalyst releasing hydrogen from water. <i>Nature</i> , 2006, 440, 295-295.   | 13.7 | 2,627     |
| 2  | Noble-Metal/Cr <sub>2</sub> O <sub>3</sub> Core/Shell Nanoparticles as a Cocatalyst for Photocatalytic Overall Water Splitting. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 7806-7809.  | 7.2  | 537       |
| 3  | A Series of NiM (M = Ru, Rh, and Pd) Bimetallic Catalysts for Effective Lignin Hydrogenolysis in Water. <i>ACS Catalysis</i> , 2014, 4, 1574-1583.   | 5.5  | 421       |
| 4  | Overall Water Splitting on (Ga <sub>1-x</sub> Zn <sub>x</sub> )(N <sub>1-x</sub> O <sub>x</sub> ) Solid Solution Photocatalyst: A Relationship between Physical Properties and Photocatalytic Activity. <i>Journal of Physical Chemistry B</i> , 2005, 109, 20504-20510.   | 1.2  | 384       |
| 5  | Photocatalytic Conversion of CO <sub>2</sub> in Water over Layered Double Hydroxides. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 8008-8011.  | 7.2  | 291       |
| 6  | Zinc Germanium Oxynitride as a Photocatalyst for Overall Water Splitting under Visible Light. <i>Journal of Physical Chemistry C</i> , 2007, 111, 1042-1048.   | 1.5  | 262       |
| 7  | Selective Amine Oxidation Using Nb <sub>2</sub> O <sub>5</sub> Photocatalyst and O <sub>2</sub> . <i>ACS Catalysis</i> , 2011, 1, 1150-1153.   | 5.5  | 258       |
| 8  | 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. <i>Journal of Physical Chemistry B</i> , 2004, 108, 346-354.   | 1.2  | 237       |
| 9  | Roles of Rh/Cr <sub>2</sub> O <sub>3</sub> (Core/Shell) Nanoparticles Photodeposited on Visible-Light-Responsive (Ga <sub>1-x</sub> Zn <sub>x</sub> )(N <sub>1-x</sub> O <sub>x</sub> ) Solid Solutions in Photocatalytic Overall Water Splitting. <i>Journal of Physical Chemistry C</i> , 2007, 111, 7554-7560.                      | 1.5  | 230       |
| 10 | Efficient Overall Water Splitting under Visible-Light Irradiation on (Ga <sub>1-x</sub> Zn <sub>x</sub> )(N <sub>1-x</sub> O <sub>x</sub> ) Dispersed with Rh <sup>+</sup> /Cr Mixed-Oxide Nanoparticles: A Effect of Reaction Conditions on Photocatalytic Activity. <i>Journal of Physical Chemistry B</i> , 2006, 110, 13107-13112. | 1.2  | 218       |
| 11 | Improvement of photocatalytic activity of (Ga <sub>1-x</sub> Zn <sub>x</sub> )(N <sub>1-x</sub> O <sub>x</sub> ) solid solution for overall water splitting by co-loading Cr and another transition metal. <i>Journal of Catalysis</i> , 2006, 243, 303-308.   | 3.1  | 198       |
| 12 | Two step water splitting into H <sub>2</sub> and O <sub>2</sub> under visible light by ATaO <sub>2</sub> N (A = Ca, Sr, Ba) and WO <sub>3</sub> with $\text{IO}^{-3}$ . <i>Chemical Physics Letters</i> , 2008, 452, 120-123.  | 1.2  | 194       |
| 13 | 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> . <i>Journal of Physical Chemistry C</i> , 2010, 114, 8892-8898.  | 1.5  | 181       |
| 14 | Characterization of Rh <sup>+</sup> /Cr Mixed-Oxide Nanoparticles Dispersed on (Ga <sub>1-x</sub> Zn <sub>x</sub> )(N <sub>1-x</sub> O <sub>x</sub> ) as a Cocatalyst for Visible-Light-Driven Overall Water Splitting. <i>Journal of Physical Chemistry B</i> , 2006, 110, 13753-13758.   | 1.2  | 180       |
| 15 | The support effect on the size and catalytic activity of thiolated Au <sub>25</sub> nanoclusters as precatalysts. <i>Nanoscale</i> , 2015, 7, 6325-6333.   | 2.8  | 142       |
| 16 | Photocatalytic reduction of CO <sub>2</sub> using H <sub>2</sub> as reductant over ATaO <sub>3</sub> photocatalysts (A = Li, Na, K). <i>Applied Catalysis B: Environmental</i> , 2010, 96, 565-568.  | 10.8 | 135       |
| 17 | Photocatalytic conversion of CO <sub>2</sub> in water over Ag-modified La <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> . <i>Applied Catalysis B: Environmental</i> , 2015, 163, 241-247.  | 10.8 | 133       |
| 18 | Photocatalytic Oxidation of Alcohols over TiO <sub>2</sub> Covered with Nb <sub>2</sub> O <sub>5</sub> . <i>ACS Catalysis</i> , 2012, 2, 175-179.  | 5.5  | 131       |

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 19 | Effect of Metal Ion Addition in a Ni Supported Ga <sub>2</sub> O <sub>3</sub> Photocatalyst on the Photocatalytic Overall Splitting of H <sub>2</sub> O. <i>Catalysis Letters</i> , 2008, 125, 22-26.  | 1.4  | 129       |
| 20 | 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. <i>Chemistry - A European Journal</i> , 2014, 20, 9906-9909.  | 1.7  | 119       |
| 21 | Modification of (Zn <sub>1-x</sub> Ge)(N <sub>2</sub> O <sub>x</sub> ) Solid Solution as a Visible Light Driven Photocatalyst for Overall Water Splitting. <i>Chemistry of Materials</i> , 2007, 19, 2120-2127.  | 3.2  | 115       |
| 22 | Characterization of Ruthenium Oxide Nanocluster as a Cocatalyst with (Ga <sub>1-x</sub> Zn <sub>x</sub> )(N <sub>1-x</sub> O <sub>x</sub> ) for Photocatalytic Overall Water Splitting. <i>Journal of Physical Chemistry B</i> , 2005, 109, 21915-21921.   | 1.2  | 110       |
| 23 | 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.  | 1.2  | 109       |
| 24 | Studies on TiN <sub>x</sub> O <sub>y</sub> F <sub>z</sub> as a Visible-Light-Responsive Photocatalyst. <i>Journal of Physical Chemistry C</i> , 2007, 111, 18264-18270.  | 1.5  | 105       |
| 25 | Highly dispersed noble-metal/chromia (core/shell) nanoparticles as efficient hydrogen evolution promoters for photocatalytic overall water splitting under visible light. <i>Nanoscale</i> , 2009, 1, 106.   | 2.8  | 105       |
| 26 | 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.  | 5.2  | 103       |
| 27 | 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.  | 1.5  | 102       |
| 28 | Role of CO <sub>2</sub> in dehydrogenation of propane over Cr-based catalysts. <i>Catalysis Today</i> , 2012, 185, 151-156.  | 2.2  | 99        |
| 29 | Photocatalytic Overall Water Splitting on Gallium Nitride Powder. <i>Bulletin of the Chemical Society of Japan</i> , 2007, 80, 1004-1010.  | 2.0  | 98        |
| 30 | 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. | 2.1  | 94        |
| 31 | Modification of Metal Nanoparticles with TiO <sub>2</sub> and Metal-Support Interaction in Photodeposition. <i>ACS Catalysis</i> , 2011, 1, 187-192.   | 5.5  | 88        |
| 32 | 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.   | 10.8 | 86        |
| 33 | Remarkable Improvement of the Photocatalytic Activity of Ga <sub>2</sub> O <sub>3</sub> Towards the Overall Splitting of H <sub>2</sub> O. <i>ChemSusChem</i> , 2011, 4, 181-184.  | 3.6  | 85        |
| 34 | 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.  | 3.1  | 84        |
| 35 | Crystal structure and optical properties of (Ga <sub>1-x</sub> Zn <sub>x</sub> )(N <sub>1-x</sub> O <sub>x</sub> ) oxynitride photocatalyst (x=0.13). <i>Chemical Physics Letters</i> , 2005, 416, 225-228.  | 1.2  | 79        |
| 36 | Overall water splitting using (oxy)nitride photocatalysts. <i>Pure and Applied Chemistry</i> , 2006, 78, 2267-2276.  | 0.9  | 76        |

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|----|---|------|-----------|
| 37 | Effect of the chloride ion as a hole scavenger on the photocatalytic conversion of CO <sub>2</sub> in an aqueous solution over Ni <sup>2+</sup> /Al layered double hydroxides. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 17995-18003.                                  | 1.3  | 76        |
| 38 | Preparation of (Ga <sub>1-x</sub> Zn <sub>x</sub> ) (Ni <sub>1-x</sub> O <sub>x</sub> ) solid-solution from ZnGa <sub>2</sub> O <sub>4</sub> and ZnO as a photo-catalyst for overall water splitting under visible light. <i>Applied Catalysis A: General</i> , 2007, 327, 114-121. | 2.2  | 73        |
| 39 | Preparation of Crystallized Mesoporous Ta <sub>3</sub> N <sub>5</sub> Assisted by Chemical Vapor Deposition of Tetramethyl Orthosilicate. <i>Chemistry of Materials</i> , 2010, 22, 3854-3861.  | 3.2  | 70        |
| 40 | Simultaneous photodeposition of rhodium <sup>+</sup> chromiumnanoparticles on a semiconductor powder: structural characterization and application to photocatalytic overall water splitting. <i>Energy and Environmental Science</i> , 2010, 3, 471-478.                            | 15.6 | 69        |
| 41 | Bifunctionality of Rh <sup>3+</sup> Modifier on TiO <sub>2</sub> and Working Mechanism of Rh <sup>3+</sup> /TiO <sub>2</sub> Photocatalyst under Irradiation of Visible Light. <i>Journal of Physical Chemistry C</i> , 2013, 117, 11008-11016.                                     | 1.5  | 67        |
| 42 | Lanthanum <sup>+</sup> Indium Oxysulfide as a Visible Light Driven Photocatalyst for Water Splitting. <i>Chemistry Letters</i> , 2007, 36, 854-855.   | 0.7  | 66        |
| 43 | Selective photo-oxidation of neat cyclohexane in the liquid phase over V <sub>2</sub> O <sub>5</sub> /Al <sub>2</sub> O <sub>3</sub> . <i>Journal of Molecular Catalysis A</i> , 2004, 208, 299-305.  | 4.8  | 62        |
| 44 | Photoassisted Selective Catalytic Reduction of NO with Ammonia in the Presence of Oxygen over TiO <sub>2</sub> . <i>Langmuir</i> , 2003, 19, 1209-1214.   | 1.6  | 61        |
| 45 | Strong metal-support interaction between Pt and SiO <sub>2</sub> following high-temperature reduction: a catalytic interface for propane dehydrogenation. <i>Chemical Communications</i> , 2017, 53, 6937-6940.   | 2.2  | 61        |
| 46 | TiO <sub>2</sub> /SiO <sub>2</sub> photocatalysts at low levels of loading: preparation, structure and photocatalysis. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2002, 148, 277-281.   | 2.0  | 60        |
| 47 | 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> . <i>Journal of Physical Chemistry C</i> , 2013, 117, 442-450.                                       | 1.5  | 59        |
| 48 | Sublimation-Induced Sulfur Vacancies in MoS <sub>2</sub> Catalyst for One-Pot Synthesis of Secondary Amines. <i>ACS Catalysis</i> , 2019, 9, 7967-7975.   | 5.5  | 57        |
| 49 | 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> . <i>Bulletin of the Chemical Society of Japan</i> , 2015, 88, 431-437.   | 2.0  | 56        |
| 50 | Effective Driving of Ag-Loaded and Al-Doped SrTiO <sub>3</sub> under Irradiation at λ > 300 nm for the Photocatalytic Conversion of CO <sub>2</sub> by H <sub>2</sub> O. <i>ACS Applied Energy Materials</i> , 2020, 3, 1468-1475.  | 2.5  | 56        |
| 51 | A titanium-based oxysulfide photocatalyst: La <sub>5</sub> Ti <sub>2</sub> MS <sub>5</sub> O <sub>7</sub> (M = Ag, Cu) for water reduction and oxidation. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 15475.   | 1.3  | 55        |
| 52 | Dynamic Behavior of Rh Species in Rh/Al <sub>2</sub> O <sub>3</sub> Model Catalyst during Three-Way Catalytic Reaction: An <i>Operando</i> X-ray Absorption Spectroscopy Study. <i>Journal of the American Chemical Society</i> , 2018, 140, 176-184.                               | 6.6  | 55        |
| 53 | Photo-oxidation of cyclohexane over alumina-supported vanadium oxide catalyst. <i>Journal of Molecular Catalysis A</i> , 2001, 165, 299-301.  | 4.8  | 54        |
| 54 | 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?. <i>Journal of Physical Chemistry C</i> , 2017, 121, 8711-8721.               | 1.5  | 54        |

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|----|--|------|-----------|
| 55 | Development of Cocatalysts for Photocatalytic Overall Water Splitting on $(\text{Ga}_{1-x}\text{Zn}_x)(\text{N}_{1-x}\text{O}_x)$ Solid Solution. <i>Catalysis Surveys From Asia</i> , 2007, 11, 145-157.                          | 1.0  | 53        |
| 56 | Modification of $\text{Ga}_2\text{O}_3$ by an Ag@Cr core-shell cocatalyst enhances photocatalytic CO evolution for the conversion of $\text{CO}_2$ by $\text{H}_2\text{O}$ . <i>Chemical Communications</i> , 2018, 54, 1053-1056. | 2.2  | 53        |
| 57 | Narrow Energy Gap between Triplet and Singlet Excited States of $\text{Sn}^{2+}$ in Borate Glass. <i>Scientific Reports</i> , 2013, 3, 3541.   | 1.6  | 52        |
| 58 | Effect of reduction method on the activity of Pt@Sn/SiO <sub>2</sub> for dehydrogenation of propane. <i>Catalysis Today</i> , 2014, 232, 33-39.  | 2.2  | 52        |
| 59 | Solvent-free aerobic alcohol oxidation using Cu/Nb <sub>2</sub> O <sub>5</sub> : Green and highly selective photocatalytic system. <i>Applied Catalysis B: Environmental</i> , 2011, 110, 216-220.                                 | 10.8 | 51        |
| 60 | Dehydrogenation of Propane over Silica-Supported Platinum-Tin Catalysts Prepared by Direct Reduction: Effects of Tin/Platinum Ratio and Reduction Temperature. <i>ChemCatChem</i> , 2014, 6, 2680-2691.                            | 1.8  | 49        |
| 61 | Visible Light Absorbed $\text{NH}_2$ Species Derived from $\text{NH}_3$ Adsorbed on TiO <sub>2</sub> for Photoassisted Selective Catalytic Reduction. <i>Journal of Physical Chemistry C</i> , 2007, 111, 14189-14197.             | 1.5  | 48        |
| 62 | Popping of Graphite Oxide: Application in Preparing Metal Nanoparticle Catalysts. <i>Advanced Materials</i> , 2015, 27, 4688-4694.   | 11.1 | 48        |
| 63 | Reaction Mechanism of Selective Photooxidation of Hydrocarbons over Nb <sub>2</sub> O <sub>5</sub> . <i>Journal of Physical Chemistry C</i> , 2011, 115, 19320-19327.  | 1.5  | 46        |
| 64 | In Situ Observation of Nucleation and Growth Process of Gold Nanoparticles by Quick XAFS Spectroscopy. <i>ChemPhysChem</i> , 2011, 12, 127-131.  | 1.0  | 46        |
| 65 | Insights into the Formation Mechanism of Rhodium Nanocubes. <i>Journal of Physical Chemistry C</i> , 2012, 116, 15076-15086.   | 1.5  | 46        |
| 66 | A ZnTa <sub>2</sub> O <sub>6</sub> photocatalyst synthesized via solid state reaction for conversion of $\text{CO}_2$ into CO in water. <i>Catalysis Science and Technology</i> , 2016, 6, 4978-4985.                              | 2.1  | 46        |
| 67 | One-phase synthesis of small gold nanoparticles coated by a horizontal porphyrin monolayer. <i>Chemical Communications</i> , 2008, , 6300.   | 2.2  | 45        |
| 68 | 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. <i>Catalysis Science and Technology</i> , 2013, 3, 1771.                             | 2.1  | 45        |
| 69 | Development of the efficient TiO <sub>2</sub> photocatalyst in photoassisted selective catalytic reduction of NO with NH <sub>3</sub> . <i>Catalysis Today</i> , 2006, 111, 266-270.   | 2.2  | 44        |
| 70 | Local Structure and La L <sub>1</sub> and L <sub>3</sub> -Edge XANES Spectra of Lanthanum Complex Oxides. <i>Inorganic Chemistry</i> , 2014, 53, 6048-6053.  | 1.9  | 44        |
| 71 | Dynamic in situ observation of automotive catalysts for emission control using X-ray absorption fine structure. <i>Catalysis Today</i> , 2009, 145, 279-287.   | 2.2  | 43        |
| 72 | Incarceration of (PdO) <sub>n</sub> and Pd <sub>n</sub> Clusters by Cage-Templated Synthesis of Hollow Silica Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 5893-5896.                               | 7.2  | 43        |

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|----|---|------|-----------|
| 73 | Photocatalytic conversion of CO <sub>2</sub> in an aqueous solution using various kinds of layered double hydroxides. <i>Catalysis Today</i> , 2015, 251, 140-144.  | 2.2  | 43        |
| 74 | Oxygen storage capacity of Sr <sub>3</sub> Fe <sub>2</sub> O <sub>7</sub> having high structural stability. <i>Journal of Materials Chemistry A</i> , 2015, 3, 13540-13545.   | 5.2  | 43        |
| 75 | 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. <i>Langmuir</i> , 2017, 33, 13929-13935.                   | 1.6  | 43        |
| 76 | A nanoLDH catalyst with high CO <sub>2</sub> adsorption capability for photo-catalytic reduction. <i>Journal of Materials Chemistry A</i> , 2018, 6, 9684-9690.   | 5.2  | 43        |
| 77 | Promotion effect of tungsten oxide on photo-assisted selective catalytic reduction of NO with NH <sub>3</sub> over TiO <sub>2</sub> . <i>Applied Catalysis B: Environmental</i> , 2008, 83, 123-130.  | 10.8 | 42        |
| 78 | The Effects of Preparation Conditions for a BaNbO <sub>2</sub> N Photocatalyst on Its Physical Properties. <i>ChemSusChem</i> , 2014, 7, 2016-2021.   | 3.6  | 42        |
| 79 | Rh nanoparticles with NiO x surface decoration for selective hydrogenolysis of C O bond over arene hydrogenation. <i>Journal of Molecular Catalysis A</i> , 2016, 422, 188-197.   | 4.8  | 42        |
| 80 | Brønsted acid generation of alumina-supported molybdenum oxide calcined at high temperatures: Characterization by acid-catalyzed reactions and spectroscopic methods. <i>Journal of Molecular Catalysis A</i> , 2013, 371, 21-28.           | 4.8  | 41        |
| 81 | In Situ Time-Resolved Energy-Dispersive XAFS Study on Photodeposition of Rh Particles on a TiO <sub>2</sub> Photocatalyst. <i>Journal of Physical Chemistry C</i> , 2008, 112, 8495-8498.   | 1.5  | 39        |
| 82 | Direct deposition of nanoparticulate rhodium-chromium mixed-oxides on a semiconductor powder by band-gap irradiation. <i>Journal of Materials Chemistry</i> , 2008, 18, 3539.   | 6.7  | 38        |
| 83 | CO <sub>2</sub> capture, storage, and conversion using a praseodymium-modified Ga <sub>2</sub> O <sub>3</sub> photocatalyst. <i>Journal of Materials Chemistry A</i> , 2017, 5, 19351-19357.  | 5.2  | 38        |
| 84 | 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. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 8423-8431.     | 1.3  | 38        |
| 85 | Effect of High-Temperature Calcination on the Generation of Brønsted Acid Sites on WO <sub>3</sub> /Al <sub>2</sub> O <sub>3</sub> . <i>ChemCatChem</i> , 2014, 6, 2011-2020.   | 1.8  | 37        |
| 86 | Correlation between preparation conditions and the photoluminescence properties of Sn <sup>2+</sup> centers in ZnO-P <sub>2</sub> O <sub>5</sub> glasses. <i>Journal of Materials Chemistry C</i> , 2014, 2, 2137-2143.                     | 2.7  | 37        |
| 87 | Selective photo-oxidation of various hydrocarbons in the liquid phase over VO/AlO. <i>Catalysis Today</i> , 2004, 96, 205-209.  | 2.2  | 36        |
| 88 | Structural Analysis of Group V, VI, and VII Metal Compounds by XAFS. <i>Journal of Physical Chemistry C</i> , 2011, 115, 23653-23663.   | 1.5  | 36        |
| 89 | Brønsted Acid Property of Alumina-Supported Niobium Oxide Calcined at High Temperatures: Characterization by Acid-Catalyzed Reactions and Spectroscopic Methods. <i>Journal of Physical Chemistry C</i> , 2012, 116, 11615-11625.           | 1.5  | 36        |
| 90 | Unique structural characteristics of tin hydroxide nanoparticles-embedded montmorillonite (Sn-Mont) demonstrating efficient acid catalysis for various organic reactions. <i>Microporous and Mesoporous Materials</i> , 2014, 198, 129-138. | 2.2  | 36        |



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|-----|--|------|-----------|
| 91  | Investigation of the electrochemical and photoelectrochemical properties of Ni <sup>2+</sup> /Al LDH photocatalysts. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 13811-13819.   | 1.3  | 36        |
| 92  | Visible-Light Selective Photooxidation of Aromatic Hydrocarbons via Ligand-to-Metal Charge Transfer Transition on Nb <sub>2</sub> O <sub>5</sub> . <i>Journal of Physical Chemistry C</i> , 2017, 121, 22854-22861.  | 1.5  | 36        |
| 93  | Brønsted Acid Generation over Alumina-Supported Niobia by Calcination at 1173 K. <i>Catalysis Letters</i> , 2009, 129, 383-386.  | 1.4  | 35        |
| 94  | 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. | 2.1  | 35        |
| 95  | Preparation of transition metal-containing layered double hydroxides and application to the photocatalytic conversion of CO <sub>2</sub> in water. <i>Journal of CO<sub>2</sub> Utilization</i> , 2016, 15, 6-14.  | 3.3  | 35        |
| 96  | Drastic improvement in the photocatalytic activity of Ga <sub>2</sub> O <sub>3</sub> modified with Mg <sup>2+</sup> /Al layered double hydroxide for the conversion of CO <sub>2</sub> in water. <i>Sustainable Energy and Fuels</i> , 2017, 1, 1740-1747.             | 2.5  | 35        |
| 97  | Title is missing!. <i>Topics in Catalysis</i> , 2002, 18, 113-118.   | 1.3  | 34        |
| 98  | 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.                       | 10.8 | 34        |
| 99  | 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.  | 3.7  | 34        |
| 100 | Photoassisted NO reduction with NH <sub>3</sub> over TiO <sub>2</sub> photocatalyst. <i>Chemical Communications</i> , 2002, , 2742-2743.   | 2.2  | 33        |
| 101 | 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.  | 2.1  | 33        |
| 102 | Photocatalytic conversion of CO <sub>2</sub> in water using fluorinated layered double hydroxides as photocatalysts. <i>Applied Catalysis A: General</i> , 2016, 521, 160-167.   | 2.2  | 32        |
| 103 | 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.                                 | 3.2  | 32        |
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| 212 | Dynamic behavior of Pd/Ca <sub>2</sub> AlMnO <sub>5</sub> +γ for purifying automotive exhaust gases under fluctuating oxygen concentration. Catalysis Today, 2022, , .  | 2.2 | 0         |