

# Kazuya Imamura

## List of Publications by Year in descending order

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Version: 2024-02-01

27  
papers

1,051  
citations

516215

16  
h-index

525886

27  
g-index

32  
all docs

32  
docs citations

32  
times ranked

1168  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | A low-crystalline ruthenium nano-layer supported on praseodymium oxide as an active catalyst for ammonia synthesis. <i>Chemical Science</i> , 2017, 8, 674-679.  | 3.7  | 149       |
| 2  | Functionalization of a plasmonic Au/TiO <sub>2</sub> photocatalyst with an Ag co-catalyst for quantitative reduction of nitrobenzene to aniline in 2-propanol suspensions under irradiation of visible light. <i>Chemical Communications</i> , 2013, 49, 2551.           | 2.2  | 116       |
| 3  | Photocatalytic reduction of nitrobenzenes to aminobenzenes in aqueous suspensions of titanium(IV) oxide in the presence of hole scavengers under deaerated and aerated conditions. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 5114.                          | 1.3  | 97        |
| 4  | Stoichiometric production of aminobenzenes and ketones by photocatalytic reduction of nitrobenzenes in secondary alcoholic suspension of titanium(IV) oxide under metal-free conditions. <i>Applied Catalysis B: Environmental</i> , 2013, 134-135, 193-197.             | 10.8 | 78        |
| 5  | Carbon-free H <sub>2</sub> production from ammonia triggered at room temperature with an acidic RuO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> catalyst. <i>Science Advances</i> , 2017, 3, e1602747.  | 4.7  | 78        |
| 6  | Chemoselective reduction of nitrobenzenes to aminobenzenes having reducible groups by a titanium(IV) oxide photocatalyst under gas- and metal-free conditions. <i>Chemical Communications</i> , 2012, 48, 4356.  | 2.2  | 71        |
| 7  | Photocatalytic Reduction of Nitrobenzene to Aniline in an Aqueous Suspension of Titanium(IV) Oxide Particles in the Presence of Oxalic Acid as a Hole Scavenger and Promotive Effect of Dioxygen in the System. <i>Chemistry Letters</i> , 2009, 38, 410-411.            | 0.7  | 53        |
| 8  | Photocatalytic reduction of benzonitrile to benzylamine in aqueous suspensions of palladium-loaded titanium(IV) oxide. <i>Chemical Communications</i> , 2013, 49, 10911.   | 2.2  | 53        |
| 9  | Photocatalytic hydrogenation of alkenes to alkanes in alcoholic suspensions of palladium-loaded titanium(IV) oxide without the use of hydrogen gas. <i>RSC Advances</i> , 2014, 4, 19883-19886.  | 1.7  | 48        |
| 10 | Copper-Modified Titanium Dioxide: A Simple Photocatalyst for the Chemoselective and Diastereoselective Hydrogenation of Alkynes to Alkenes under Additive-Free Conditions. <i>ChemCatChem</i> , 2016, 8, 2019-2022.  | 1.8  | 44        |
| 11 | Simultaneous production of aromatic aldehydes and dihydrogen by photocatalytic dehydrogenation of liquid alcohols over metal-loaded titanium(IV) oxide under oxidant- and solvent-free conditions. <i>Applied Catalysis A: General</i> , 2013, 450, 28-33.               | 2.2  | 42        |
| 12 | Photocatalytic chemoselective reduction of epoxides to alkenes along with formation of ketones in alcoholic suspensions of silver-loaded titanium(IV) oxide at room temperature without the use of reducing gases. <i>Chemical Communications</i> , 2014, 50, 4558-4560. | 2.2  | 40        |
| 13 | Kinetics of ammonia synthesis over Ru/Pr <sub>2</sub> O <sub>3</sub> . <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019, 105, 50-56.  | 2.7  | 35        |
| 14 | Ammonia synthesis over lanthanoid oxide-supported ruthenium catalysts. <i>Catalysis Today</i> , 2021, 376, 36-40.  | 2.2  | 24        |
| 15 | Ring hydrogenation of aromatic compounds in aqueous suspensions of an Rh-loaded TiO <sub>2</sub> photocatalyst without use of H <sub>2</sub> gas. <i>Catalysis Science and Technology</i> , 2018, 8, 139-146.  | 2.1  | 23        |
| 16 | Chemoselective reduction of nitrobenzenes having other reducible groups over titanium(IV) oxide photocatalyst under protection-, gas-, and metal-free conditions. <i>Tetrahedron</i> , 2014, 70, 6134-6139.  | 1.0  | 19        |
| 17 | Photocatalytic deoxygenation of sulfoxides to sulfides over titanium(IV) oxide at room temperature without use of metal co-catalysts. <i>Catalysis Communications</i> , 2014, 54, 100-103.   | 1.6  | 17        |
| 18 | Hydrolysis of Oligosaccharides and Polysaccharides on Sulfonated Solid Acid Catalysts: Relations between Adsorption Properties and Catalytic Activities. <i>ACS Omega</i> , 2020, 5, 24964-24972.  | 1.6  | 16        |

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|----|---|-----|-----------|
| 19 | Titanium( <sup>iv</sup> ) oxide having a copper co-catalyst: a new type of semihydrogenation photocatalyst working efficiently at an elevated temperature under hydrogen-free and poison-free conditions. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 19321-19325. | 1.3 | 15        |
| 20 | Organically modified titania having a metal catalyst: a new type of liquid-phase hydrogen-transfer photocatalyst working under visible light irradiation and H <sub>2</sub> -free conditions. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 16076-16079.             | 1.3 | 6         |
| 21 | Synthesis of Novel Layered Zinc Glycolate and Exchange of Ethylene Glycol with Manganese Acetate Complex. <i>Bulletin of the Chemical Society of Japan</i> , 2018, 91, 1546-1552.   | 2.0 | 6         |
| 22 | The Role of the Surface Acid-Base Nature of Nanocrystalline Hydroxyapatite Catalysts in the 1,6-Hexanediol Conversion. <i>Nanomaterials</i> , 2021, 11, 659.  | 1.9 | 6         |
| 23 | Photocatalytic chemoselective cleavage of C=O bonds under hydrogen gas- and acid-free conditions. <i>Chemical Communications</i> , 2018, 54, 7298-7301.   | 2.2 | 5         |
| 24 | Photocatalytic hydrogenation of nitrobenzene to aniline over titanium( <sup>iv</sup> ) oxide using various saccharides instead of hydrogen gas. <i>RSC Advances</i> , 2021, 11, 32300-32304.  | 1.7 | 4         |
| 25 | Integrity analysis of authenticated encryption based on stream ciphers. <i>International Journal of Information Security</i> , 2018, 17, 493-511.   | 2.3 | 3         |
| 26 | Synthetic Applications of Titanium(IV) Oxide-Based Photocatalysts. <i>Green Chemistry and Sustainable Technology</i> , 2016, , 283-320.   | 0.4 | 2         |
| 27 | Integrity Analysis of Authenticated Encryption Based on Stream Ciphers. <i>Lecture Notes in Computer Science</i> , 2016, , 257-276.   | 1.0 | 1         |