## Osamu Tomita

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

1,294 17 39 35 h-index g-index citations papers 1,614 4.81 42 9.1 L-index avg, IF ext. papers ext. citations

| #  | Paper  | IF   | Citations |
|----|--|------|-----------|
| 39 | Manipulation of charge carrier flow in BiNbOCl nanoplate photocatalyst with metal loading <i>Chemical Science</i> , <b>2022</b> , 13, 3118-3128  | 9.4  | 4         |
| 38 | Cobalt hexacyanoferrate as an effective cocatalyst boosting water oxidation on oxynitride TaON photocatalyst under visible light. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2022</b> , 426, 113753   | 4.7  | 1         |
| 37 | Two-Dimensional MetalDrganic Framework Acts as a Hydrogen Evolution Cocatalyst for Overall Photocatalytic Water Splitting. <i>ACS Catalysis</i> , <b>2022</b> , 12, 3881-3889  | 13.1 | 4         |
| 36 | Layered Perovskite Oxyiodide with Narrow Band Gap and Long Lifetime Carriers for Water Splitting Photocatalysis. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 8446-8453  | 16.4 | 19        |
| 35 | Visible-Light-Responsive Oxyhalide PbBiOCl Photoelectrode: On-Site Flux Synthesis on a Fluorine-Doped Tin Oxide Electrode. <i>ACS Applied Materials &amp; District Materials &amp; District</i> | 9.5  | 2         |
| 34 | A new lead-free Silliaurivillius oxychloride Bi5SrTi3O14Cl with triple-perovskite layers for photocatalytic water splitting under visible light. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2021</b> , 408, 113095  | 4.7  | 3         |
| 33 | Synthesis, band structure and photocatalytic properties of Sill®Aurivillius oxychlorides BaBi5Ti3O14Cl, Ba2Bi5Ti4O17Cl and Ba3Bi5Ti5O20Cl with triple-, quadruple- and quintuple-perovskite layers. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 8332-8340   | 13   | 7         |
| 32 | Earth-abundant iron(III) species serves as a cocatalyst boosting the multielectron reduction of IO3/III ledox shuttle in Z-scheme photocatalytic water splitting. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 11718-11725   | 13   | 3         |
| 31 | PbBi3O4X3 (X = Cl, Br) with Single/Double Halogen Layers as a Photocatalyst for Visible-Light-Driven Water Splitting: Impact of a Halogen Layer on the Band Structure and Stability. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 9580-9587   | 9.6  | 3         |
| 30 | Triple-layered Sill@Aurivillius Perovskite Oxychloride Bi5PbTi3O14Cl as a Visible-light-responsive Photocatalyst for Water Splitting. <i>Chemistry Letters</i> , <b>2020</b> , 49, 978-981   | 1.7  | 6         |
| 29 | Effective strategy for enhancing Z-scheme water splitting with the IO3/III edox mediator by using a visible light responsive TaON photocatalyst co-loaded with independently optimized two different cocatalysts. Sustainable Energy and Fuels, 2019, 3, 1501-1508   | 5.8  | 12        |
| 28 | Flux Synthesis of Layered Oxyhalide BiNbOCl Photocatalyst for Efficient Z-Scheme Water Splitting Under Visible Light. <i>ACS Applied Materials &amp; Amp; Interfaces</i> , <b>2019</b> , 11, 5642-5650   | 9.5  | 58        |
| 27 | Application of carbon microfiber felts as three-dimensional conductive substrate for efficient photoanodes of tungsten(VI) oxide. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2019</b> , 375, 54-63  | 4.7  | 2         |
| 26 | Mimicking Natural Photosynthesis: Solar to Renewable H Fuel Synthesis by Z-Scheme Water Splitting Systems. <i>Chemical Reviews</i> , <b>2018</b> , 118, 5201-5241  | 68.1 | 497       |
| 25 | Molybdenum-substituted polyoxometalate as stable shuttle redox mediator for visible light driven Z-scheme water splitting system. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2018</b> , 356, 347-354  | 4.7  | 13        |
| 24 | The first example of an oxide semiconductor photocatalyst consisting of a heptavalent cation: visible-light-induced water oxidation on M3ReO8. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 1991-1994  | 13   | 2         |
| 23 | Strong hybridization between Bi-6s and O-2p orbitals in SillBAurivillius perovskite Bi4MO8X (M = Nb, Ta; X = Cl, Br), visible light photocatalysts enabling stable water oxidation. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 3100-3107   | 13   | 70        |

| 22 | Improved water oxidation under visible light on oxyhalide Bi4MO8X (M = Nb, Ta; X = Cl, Br) photocatalysts prepared using excess halogen precursors. <i>Sustainable Energy and Fuels</i> , <b>2018</b> , 2, 1474-1  | 1480 | 23  |
|----|--|------|-----|
| 21 | Improved visible-light activity of nitrogen-doped layered niobate photocatalysts by NH3-nitridation with KCl flux. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 232, 49-54  | 21.8 | 17  |
| 20 | Lead Bismuth Oxyhalides PbBiO2X (X = Cl, Br) as Visible-Light-Responsive Photocatalysts for Water Oxidation: Role of Lone-Pair Electrons in Valence Band Engineering. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 5862-5869                          | 9.6  | 62  |
| 19 | Improved Activity of Hydrothermally-prepared WO3 Photocatalysts by Sodium Salt Additives. <i>Chemistry Letters</i> , <b>2018</b> , 47, 985-988   | 1.7  | 4   |
| 18 | Enhanced H2 Evolution on ZnIn2S4 Photocatalyst under Visible Light by Surface Modification with Metal Cyanoferrates. <i>Chemistry Letters</i> , <b>2018</b> , 47, 941-944  | 1.7  | 9   |
| 17 | Silla Aurivillius-related Oxychloride Bi6NbWO14Cl as a Stable O2-evolving Photocatalyst in Z-scheme Water Splitting under Visible Light. <i>Chemistry Letters</i> , <b>2017</b> , 46, 583-586  | 1.7  | 21  |
| 16 | Enhanced oxygen evolution on visible light responsive TaON photocatalysts co-loaded with highly active Ru species for IO3Ireduction and Co species for water oxidation. <i>Sustainable Energy and Fuels</i> , <b>2017</b> , 1, 748-754                     | 5.8  | 13  |
| 15 | Tungstic acids H2WO4 and H4WO5 as stable photocatalysts for water oxidation under visible light.<br>Journal of Materials Chemistry A, <b>2017</b> , 5, 10280-10288   | 13   | 23  |
| 14 | Surface-modified metal sulfides as stable H2-evolving photocatalysts in Z-scheme water splitting with a [Fe(CN)6]3[AI]redox mediator under visible-light irradiation. Sustainable Energy and Fuels, 2017, 1, 1065-1073                                     | 5.8  | 29  |
| 13 | Highly Dispersed RuO2 Hydrates Prepared via Simple Adsorption as Efficient Cocatalysts for Visible-Light-Driven Z-Scheme Water Splitting with an IO3/IIRedox Mediator. <i>ACS Catalysis</i> , <b>2017</b> , 7, 4336-4343                                   | 13.1 | 33  |
| 12 | Fabrication of CuInS2 photocathodes on carbon microfiber felt by arc plasma deposition for efficient water splitting under visible light. <i>Sustainable Energy and Fuels</i> , <b>2017</b> , 1, 699-709   | 5.8  | 6   |
| 11 | Improved Photocatalytic Water Oxidation with Fe3+/Fe2+ Redox on Rectangular-shaped WO3 Particles with Specifically Exposed Crystal Faces via Hydrothermal Synthesis. <i>Chemistry Letters</i> , <b>2017</b> , 46, 221-224                                  | 1.7  | 15  |
| 10 | Design of nitrogen-doped layered tantalates for non-sacrificial and selective hydrogen evolution from water under visible light. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 14444-14452  | 13   | 21  |
| 9  | Manganese-Substituted Polyoxometalate as an Effective Shuttle Redox Mediator in Z-Scheme Water Splitting under Visible Light. <i>ChemSusChem</i> , <b>2016</b> , 9, 2201-8   | 8.3  | 43  |
| 8  | Partial Oxidation of Alcohols on Visible-Light-Responsive WO3 Photocatalysts Loaded with Palladium Oxide Cocatalyst. <i>ACS Catalysis</i> , <b>2016</b> , 6, 1134-1144   | 13.1 | 107 |
| 7  | Porous TaON Photoanodes Loaded with Cobalt-Based Cocatalysts for Efficient and Stable Water Oxidation Under Visible Light. <i>Topics in Catalysis</i> , <b>2016</b> , 59, 740-749  | 2.3  | 12  |
| 6  | Two-step photocatalytic water splitting into H2 and O2 using layered metal oxide KCa2Nb3O10 and its derivatives as O2-evolving photocatalysts with IO3/IIbr Fe3+/Fe2+ redox mediator. <i>Catalysis Science and Technology</i> , <b>2015</b> , 5, 2640-2648 | 5.5  | 41  |
| 5  | Fabrication of cation-doped BaTaO2N photoanodes for efficient photoelectrochemical water splitting under visible light irradiation. <i>APL Materials</i> , <b>2015</b> , 3, 104418   | 5.7  | 30  |

| 4 | Solvothermal Synthesis of Ca2Nb2O7 Fine Particles and Their High Activity for Photocatalytic Water Splitting into H2 and O2 under UV Light Irradiation. <i>Chemistry Letters</i> , <b>2015</b> , 44, 1001-1003                       | 1.7 | 11 |
|---|--|-----|----|
| 3 | Z-scheme Water Splitting into H2 and O2 Using Tungstic Acid as an Oxygen-evolving Photocatalyst under Visible Light Irradiation. <i>Chemistry Letters</i> , <b>2015</b> , 44, 1134-1136  | 1.7 | 10 |
| 2 | Highly selective phenol production from benzene on a platinum-loaded tungsten oxide photocatalyst with water and molecular oxygen: selective oxidation of water by holes for generating hydroxyl group. Catalysis Science and        | 5.5 | 57 |
| 1 | Technology, <b>2014</b> , 4, 3850-3860 Controlling the Carrier Density in Niobium Oxynitride BaNbO2N via Cation Doping for Efficient Photoelectrochemical Water Splitting under Visible Light. <i>Sustainable Energy and Fuels</i> , | 5.8 | 1  |