

# Osamu Tomita

## List of Publications by Citations

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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.

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

#	Paper	IF	Citations
39	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
38	Partial Oxidation of Alcohols on Visible-Light-Responsive WO <sub>3</sub> Photocatalysts Loaded with Palladium Oxide Cocatalyst. <i>ACS Catalysis</i> , <b>2016</b> , 6, 1134-1144	13.1	107
37	Strong hybridization between Bi-6s and O-2p orbitals in Sillarsaurivillius perovskite Bi <sub>4</sub> MO <sub>8</sub> X (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
36	Lead Bismuth Oxyhalides PbBiO <sub>2</sub> X (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
35	Flux Synthesis of Layered Oxyhalide BiNbOCl Photocatalyst for Efficient Z-Scheme Water Splitting Under Visible Light. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 5642-5650	9.5	58
34	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 radical as the predominant source of the hydroxyl group. <i>Catalysis Science and Technology</i> , <b>2014</b> , 4, 3850-3860	5.5	57
33	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
32	Two-step photocatalytic water splitting into H <sub>2</sub> and O <sub>2</sub> using layered metal oxide KCa <sub>2</sub> Nb <sub>3</sub> O <sub>10</sub> and its derivatives as O <sub>2</sub> -evolving photocatalysts with IO <sub>3</sub> <sup>-</sup> /Br <sup>-</sup> Fe <sup>3+</sup> /Fe <sup>2+</sup> redox mediator. <i>Catalysis Science and Technology</i> , <b>2015</b> , 5, 2640-2648	5.5	41
31	Highly Dispersed RuO <sub>2</sub> Hydrates Prepared via Simple Adsorption as Efficient Cocatalysts for Visible-Light-Driven Z-Scheme Water Splitting with an IO <sub>3</sub> <sup>-</sup> /Br <sup>-</sup> Redox Mediator. <i>ACS Catalysis</i> , <b>2017</b> , 7, 4336-4343	13.1	33
30	Fabrication of cation-doped BaTaO <sub>2</sub> N photoanodes for efficient photoelectrochemical water splitting under visible light irradiation. <i>APL Materials</i> , <b>2015</b> , 3, 104418	5.7	30
29	Surface-modified metal sulfides as stable H <sub>2</sub> -evolving photocatalysts in Z-scheme water splitting with a [Fe(CN) <sub>6</sub> ] <sup>3-/4-</sup> redox mediator under visible-light irradiation. <i>Sustainable Energy and Fuels</i> , <b>2017</b> , 1, 1065-1073	5.8	29
28	Tungstic acids H <sub>2</sub> WO <sub>4</sub> and H <sub>4</sub> WO <sub>5</sub> as stable photocatalysts for water oxidation under visible light. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 10280-10288	13	23
27	Improved water oxidation under visible light on oxyhalide Bi <sub>4</sub> MO <sub>8</sub> X (M = Nb, Ta; X = Cl, Br) photocatalysts prepared using excess halogen precursors. <i>Sustainable Energy and Fuels</i> , <b>2018</b> , 2, 1474-1480	5.8	23
26	Sillarsaurivillius-related Oxychloride Bi <sub>6</sub> NbWO <sub>14</sub> Cl as a Stable O <sub>2</sub> -evolving Photocatalyst in Z-scheme Water Splitting under Visible Light. <i>Chemistry Letters</i> , <b>2017</b> , 46, 583-586	1.7	21
25	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
24	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
23	Improved visible-light activity of nitrogen-doped layered niobate photocatalysts by NH <sub>3</sub> -nitridation with KCl flux. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 232, 49-54	21.8	17

22	Improved Photocatalytic Water Oxidation with Fe <sup>3+</sup> /Fe <sup>2+</sup> Redox on Rectangular-shaped WO <sub>3</sub> Particles with Specifically Exposed Crystal Faces via Hydrothermal Synthesis. <i>Chemistry Letters</i> , <b>2017</b> , 46, 221-224	1.7	15
21	Enhanced oxygen evolution on visible light responsive TaON photocatalysts co-loaded with highly active Ru species for IO <sub>3</sub> <sup>-</sup> reduction and Co species for water oxidation. <i>Sustainable Energy and Fuels</i> , <b>2017</b> , 1, 748-754	5.8	13
20	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
19	Effective strategy for enhancing Z-scheme water splitting with the IO <sub>3</sub> <sup>-</sup> /I <sup>-</sup> redox mediator by using a visible light responsive TaON photocatalyst co-loaded with independently optimized two different cocatalysts. <i>Sustainable Energy and Fuels</i> , <b>2019</b> , 3, 1501-1508	5.8	12
18	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
17	Solvothermal Synthesis of Ca <sub>2</sub> Nb <sub>2</sub> O <sub>7</sub> Fine Particles and Their High Activity for Photocatalytic Water Splitting into H <sub>2</sub> and O <sub>2</sub> under UV Light Irradiation. <i>Chemistry Letters</i> , <b>2015</b> , 44, 1001-1003	1.7	11
16	Z-scheme Water Splitting into H <sub>2</sub> and O <sub>2</sub> 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
15	Enhanced H <sub>2</sub> Evolution on ZnIn <sub>2</sub> S <sub>4</sub> Photocatalyst under Visible Light by Surface Modification with Metal Cyanoferrates. <i>Chemistry Letters</i> , <b>2018</b> , 47, 941-944	1.7	9
14	Synthesis, band structure and photocatalytic properties of Sillafurivillius oxychlorides BaBi <sub>5</sub> Ti <sub>3</sub> O <sub>14</sub> Cl, Ba <sub>2</sub> Bi <sub>5</sub> Ti <sub>4</sub> O <sub>17</sub> Cl and Ba <sub>3</sub> Bi <sub>5</sub> Ti <sub>5</sub> O <sub>20</sub> Cl with triple-, quadruple- and quintuple-perovskite layers. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 8332-8340	13	7
13	Fabrication of CuInS <sub>2</sub> 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
12	Triple-layered Sillafurivillius Perovskite Oxychloride Bi <sub>5</sub> PbTi <sub>3</sub> O <sub>14</sub> Cl as a Visible-light-responsive Photocatalyst for Water Splitting. <i>Chemistry Letters</i> , <b>2020</b> , 49, 978-981	1.7	6
11	Improved Activity of Hydrothermally-prepared WO <sub>3</sub> Photocatalysts by Sodium Salt Additives. <i>Chemistry Letters</i> , <b>2018</b> , 47, 985-988	1.7	4
10	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
9	Two-Dimensional MetalOrganic 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
8	A new lead-free Sillafurivillius oxychloride Bi <sub>5</sub> SrTi <sub>3</sub> O <sub>14</sub> Cl 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
7	Earth-abundant iron(III) species serves as a cocatalyst boosting the multielectron reduction of IO <sub>3</sub> <sup>-</sup> /I <sup>-</sup> redox shuttle in Z-scheme photocatalytic water splitting. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 11718-11725	13	3
6	PbBi <sub>3</sub> O <sub>4</sub> X <sub>3</sub> (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
5	The first example of an oxide semiconductor photocatalyst consisting of a heptavalent cation: visible-light-induced water oxidation on M <sub>3</sub> ReO <sub>8</sub> . <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 1991-1994	13	2

4	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
3	Visible-Light-Responsive Oxyhalide PbBiOCl Photoelectrode: On-Site Flux Synthesis on a Fluorine-Doped Tin Oxide Electrode. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 5176-5183	9.5	2
2	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
1	Controlling the Carrier Density in Niobium Oxynitride BaNbO <sub>2</sub> N via Cation Doping for Efficient Photoelectrochemical Water Splitting under Visible Light. <i>Sustainable Energy and Fuels</i> ,	5.8	1