

# Naoya Murakami

## List of Publications by Citations

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74  
papers

3,046  
citations

27  
h-index

54  
g-index

74  
ext. papers

3,233  
ext. citations

6.7  
avg, IF

5.25  
L-index

#	Paper	IF	Citations
74	Pristine simple oxides as visible light driven photocatalysts: highly efficient decomposition of organic compounds over platinum-loaded tungsten oxide. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 7780-1	16.4	677
73	Shape-Controlled Anatase Titanium(IV) Oxide Particles Prepared by Hydrothermal Treatment of Peroxo Titanic Acid in the Presence of Polyvinyl Alcohol. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 3062-3069	3.8	262
72	Correlation between Photocatalytic Activities and Structural and Physical Properties of Titanium(IV) Oxide Powders. <i>Chemistry Letters</i> , <b>2009</b> , 38, 238-239	1.7	219
71	Photocatalytic reduction of CO <sub>2</sub> over a hybrid photocatalyst composed of WO <sub>3</sub> and graphitic carbon nitride (g-C <sub>3</sub> N <sub>4</sub> ) under visible light. <i>Journal of CO<sub>2</sub> Utilization</i> , <b>2014</b> , 6, 17-25	7.6	163
70	Switching redox site of photocatalytic reaction on titanium(IV) oxide particles modified with transition-metal ion controlled by irradiation wavelength. <i>Applied Catalysis A: General</i> , <b>2008</b> , 348, 148-152	5.1	149
69	Complete oxidation of acetaldehyde over a composite photocatalyst of graphitic carbon nitride and tungsten(VI) oxide under visible-light irradiation. <i>Applied Catalysis B: Environmental</i> , <b>2014</b> , 150-151, 479-485	21.8	97
68	Development of highly efficient sulfur-doped TiO <sub>2</sub> photocatalysts hybridized with graphitic carbon nitride. <i>Applied Catalysis B: Environmental</i> , <b>2013</b> , 142-143, 362-367	21.8	90
67	Exposed crystal surface-controlled TiO <sub>2</sub> nanorods having rutile phase from TiCl <sub>3</sub> under hydrothermal conditions. <i>Journal of Molecular Catalysis A</i> , <b>2009</b> , 300, 72-79		89
66	Double-Beam Photoacoustic Spectroscopic Studies on Transient Absorption of Titanium(IV) Oxide Photocatalyst Powders. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 11927-11935	3.8	79
65	Incident light dependence for photocatalytic degradation of acetaldehyde and acetic acid on S-doped and N-doped TiO <sub>2</sub> photocatalysts. <i>Chemical Physics</i> , <b>2007</b> , 339, 64-72	2.3	74
64	Photocatalytic reduction of CO <sub>2</sub> over exposed-crystal-face-controlled TiO <sub>2</sub> nanorod having a brookite phase with co-catalyst loading. <i>Applied Catalysis B: Environmental</i> , <b>2014</b> , 152-153, 309-316	21.8	71
63	Development of a visible-light-responsive rutile rod by site-selective modification of iron(III) ion on {111} exposed crystal faces. <i>Applied Catalysis B: Environmental</i> , <b>2010</b> , 97, 115-119	21.8	60
62	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> , <b>2013</b> , 117, 11008-11016	3.8	57
61	A fingerprint of metal-oxide powders: energy-resolved distribution of electron traps. <i>Chemical Communications</i> , <b>2016</b> , 52, 12096-12099	5.8	56
60	Performance of nitrogen- and sulfur-containing carbon material derived from thiourea and formaldehyde as electrochemical capacitor. <i>Journal of Power Sources</i> , <b>2011</b> , 196, 10455-10460	8.9	55
59	Dependence of Activity of Rutile Titanium(IV) Oxide Powder for Photocatalytic Overall Water Splitting on Structural Properties. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 9093-9100	3.8	54
58	Dependence of Photocatalytic Activity on Aspect Ratio of Shape-Controlled Rutile Titanium(IV) Oxide Nanorods. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 419-424	3.8	54

57	Improvement of photocatalytic activity of brookite titanium dioxide nanorods by surface modification using chemical etching. <i>Applied Surface Science</i> , <b>2012</b> , 258, 5803-5809	6.7	43
56	Photoacoustic spectroscopic analysis of photoinduced change in absorption of titanium(IV) oxide photocatalyst powders: A novel feasible technique for measurement of defect density. <i>Chemical Physics Letters</i> , <b>2006</b> , 426, 204-208	2.5	43
55	Development of metal cation compound-loaded S-doped TiO <sub>2</sub> photocatalysts having a rutile phase under visible light. <i>Applied Catalysis A: General</i> , <b>2008</b> , 349, 70-75	5.1	42
54	Novel hydrothermal preparation of pure brookite-type titanium(IV) oxide nanocrystal under strong acidic conditions. <i>Catalysis Communications</i> , <b>2009</b> , 10, 963-966	3.2	39
53	Development of an S-doped titania nanotube (TNT) site-selectively loaded with iron(III) oxide and its photocatalytic activities. <i>Applied Catalysis B: Environmental</i> , <b>2008</b> , 84, 584-590	21.8	38
52	Fabrication and characterization of a p-type Cu <sub>3</sub> Nb <sub>2</sub> O <sub>8</sub> photocathode toward photoelectrochemical reduction of carbon dioxide. <i>Applied Catalysis B: Environmental</i> , <b>2015</b> , 174-175, 471-476	21.8	37
51	Effect of chemical etching by sulfuric acid or H <sub>2</sub> O <sub>2</sub> /NH <sub>3</sub> mixed solution on the photocatalytic activity of rutile TiO <sub>2</sub> nanorods. <i>Applied Catalysis A: General</i> , <b>2010</b> , 380, 48-54	5.1	31
50	Development of a titania nanotube (TNT) loaded site-selectively with Pt nanoparticles and their photocatalytic activities. <i>Applied Catalysis A: General</i> , <b>2008</b> , 337, 105-109	5.1	29
49	Reversed double-beam photoacoustic spectroscopy of metal-oxide powders for estimation of their energy-resolved distribution of electron traps and electronic-band structure. <i>Electrochimica Acta</i> , <b>2018</b> , 264, 83-90	6.7	28
48	Photocatalytic Hydrogen or Oxygen Evolution from Water over S- or N-Doped TiO <sub>2</sub> under Visible Light. <i>International Journal of Photoenergy</i> , <b>2008</b> , 2008, 1-7	2.1	28
47	Characterization and photocatalytic performance of carbon nanotube material-modified TiO <sub>2</sub> synthesized by using the hot CVD process. <i>Applied Catalysis B: Environmental</i> , <b>2009</b> , 91, 533-538	21.8	24
46	Dependence of photocatalytic activity on particle size of a shape-controlled anatase titanium(IV) oxide nanocrystal. <i>Journal of Molecular Catalysis A</i> , <b>2012</b> , 358, 106-111		23
45	Improvement of visible light photocatalytic acetaldehyde decomposition of bismuth vanadate/silica nanocomposites by cocatalyst loading. <i>Journal of Hazardous Materials</i> , <b>2012</b> , 211-212, 83-7	12.8	23
44	Improvement of photocatalytic activity of high specific surface area graphitic carbon nitride by loading a co-catalyst. <i>Rare Metals</i> , <b>2019</b> , 38, 468-474	5.5	22
43	Contribution of Discharge Excited Atomic N, N*, and N to a Plasma/Liquid Interfacial Reaction as Suggested by Quantitative Analysis. <i>ChemPhysChem</i> , <b>2019</b> , 20, 1467-1474	3.2	20
42	Improvement of capacitance value as the electrode of an electrochemical capacitor by mixing starch with guanidine phosphate. <i>Journal of Power Sources</i> , <b>2011</b> , 196, 5769-5773	8.9	19
41	Development of a visible-light-responsive titania nanotube photocatalyst by site-selective modification with hetero metal ions. <i>Applied Catalysis B: Environmental</i> , <b>2009</b> , 92, 56-60	21.8	18
40	Synthesis of anatase TiO <sub>2</sub> with exposed {001} and {101} facets and photocatalytic activity. <i>Rare Metals</i> , <b>2019</b> , 38, 287-291	5.5	18

39	Improvement of Thermoelectric Performance for Sb-Doped SnO <sub>2</sub> Ceramics Material by Addition of Cu as Sintering Additive. <i>Journal of Electronic Materials</i> , <b>2014</b> , 43, 3567-3573	1.9	16
38	Photocatalytic reaction over iron hydroxides: A novel visible-light-responsive photocatalyst. <i>Catalysis Communications</i> , <b>2011</b> , 12, 341-344	3.2	16
37	What Are Titania Photocatalysts? An Exploratory Correlation of Photocatalytic Activity with Structural and Physical Properties. <i>Journal of Advanced Oxidation Technologies</i> , <b>2010</b> , 13,		16
36	Control of the crystal structure of titanium(IV) oxide by hydrothermal treatment of a titanate nanotube under acidic conditions. <i>CrystEngComm</i> , <b>2010</b> , 12, 532-537	3.3	14
35	In situ observation of photocatalytic reaction by photoacoustic spectroscopy: Detection of heat of exothermic photocatalytic reaction. <i>Chemical Physics Letters</i> , <b>2008</b> , 451, 316-320	2.5	11
34	Photoacoustic Fourier Transform Near- and Mid-Infrared Spectroscopy for Measurement of Energy Levels of Electron Trapping Sites in Titanium(IV) Oxide Photocatalyst Powders. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 12169-12175	3.8	10
33	Nitrogen Fixation in a Plasma/Liquid Interfacial Reaction and Its Switching between Reduction and Oxidation. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 9401-9408	3.8	10
32	Controlled structure of anatase TiO <sub>2</sub> nanoparticles by using organic additives in a microwave process. <i>Applied Catalysis A: General</i> , <b>2011</b> , 406, 119-123	5.1	10
31	Capacitance property of carbon material derived from starch mixed with guanidine phosphate as electrochemical capacitor. <i>Journal of Power Sources</i> , <b>2013</b> , 227, 24-30	8.9	9
30	Development of Visible-Light Active S cation-doped TiO <sub>2</sub> Photocatalyst. <i>Current Organic Chemistry</i> , <b>2010</b> , 14, 699-708	1.7	9
29	Performance of carbon material derived from starch mixed with flame retardant as electrochemical capacitor. <i>Journal of Power Sources</i> , <b>2014</b> , 267, 635-640	8.9	8
28	Improvement of visible light responsivity of rutile TiO <sub>2</sub> nanorods by site-selective modification of iron(III) ion on newly exposed faces formed by chemical etching treatment. <i>Applied Catalysis B: Environmental</i> , <b>2013</b> , 130-131, 264-269	21.8	8
27	Development of Plasmonic Photocatalyst by Site-selective Loading of Bimetallic Nanoparticles of Au and Ag on Titanium(IV) Oxide. <i>ChemCatChem</i> , <b>2020</b> , 12, 3783-3792	5.2	7
26	Mid-infrared absorption of trapped electrons in titanium(iv) oxide particles using a photoacoustic FTIR technique. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 24519-24522	3.6	7
25	Improvement of electrical conductivity while maintaining a high-transmittance of graphene oxide/MWCNT film by hydrazine reduction. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2012</b> , 12, 6930-4	1.3	6
24	In situ photoacoustic FTIR studies on photocatalytic oxidation of 2-propanol over titanium(IV) oxide. <i>Catalysis Communications</i> , <b>2016</b> , 83, 1-4	3.2	6
23	Operando Analysis of Electron Accumulation in Titanium(IV) Oxide Particles in an Aqueous Suspension Using a Photoacoustic Spectroscopic Method. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 222-226	3.8	6
22	Solution-processed amorphous niobium oxide as a novel electron collection layer for inverted polymer solar cells. <i>Chemical Physics Letters</i> , <b>2013</b> , 586, 81-84	2.5	5

21	Spherical activated carbon derived from spherical cellulose and its performance as EDLC electrode. <i>Journal of Applied Polymer Science</i> , <b>2014</b> , 131, n/a-n/a	2.9	5
20	In situ photoacoustic spectroscopic analysis on photocatalytic decolorization of methylene blue over titanium(IV) oxide particles. <i>RSC Advances</i> , <b>2016</b> , 6, 65518-65523	3.7	5
19	Effect of electrochemical treatment in H <sub>2</sub> SO <sub>4</sub> aqueous solution on carbon material derived from cellulose with added guanidine phosphate. <i>Journal of Power Sources</i> , <b>2013</b> , 225, 150-156	8.9	4
18	Chemical modification of diamond surface with linoleic acid by using benzoyl peroxide. <i>Diamond and Related Materials</i> , <b>2011</b> , 20, 584-587	3.5	4
17	Photoacoustic Spectroscopic Estimation of Electron Mobility in Titanium(IV) Oxide Photocatalysts. <i>Studies in Surface Science and Catalysis</i> , <b>2007</b> , 172, 429-432	1.8	4
16	In situ photoacoustic analysis of near-infrared absorption of rhodium-doped strontium titanate photocatalyst powder. <i>Chemical Communications</i> , <b>2020</b> , 56, 14255-14258	5.8	4
15	Determination of the internal quantum efficiency for photoelectrochemical reaction in a semiconductor photoelectrode by photoacoustic detection. <i>Chemical Communications</i> , <b>2020</b> , 56, 5417-5420	5.8	3
14	Attempt of Deposition of Ag-Doped Amorphous Carbon Film by Ag-Cathode DC Plasma with CH <sub>4</sub> Flow. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2015</b> , 15, 4619-31	1.3	2
13	Chemical modification of diamond surface with X(C <sub>6</sub> H <sub>4</sub> )COOH (X=F, Cl, Br, I) using benzoyl peroxide. <i>Diamond and Related Materials</i> , <b>2010</b> , 19, 1003-1006	3.5	2
12	Reduction of nitrate to ammonia using photocatalytically accumulated electrons on titanium(IV) oxide in a time-separated redox reaction. <i>Inorganic Chemistry Communication</i> , <b>2022</b> , 109585	3.1	2
11	Low-temperature preparation of a molybdenum oxide hole collection layer by using a peroxo precursor for polymer solar cells. <i>Solar Energy Materials and Solar Cells</i> , <b>2015</b> , 143, 522-528	6.4	1
10	Synthesis of nanofibrous carbon with herringbone structure on Ni-supported SiC particles using hot CVD apparatus. <i>Diamond and Related Materials</i> , <b>2014</b> , 48, 104-109	3.5	1
9	Chemical reaction of hydrogenated diamond surface with amino acids by using N-chlorosuccinimide. <i>Diamond and Related Materials</i> , <b>2009</b> , 18, 1174-1178	3.5	1
8	Drastically Increase in Atomic Nitrogen Production Depending on the Dielectric Constant of Beads Filled in the Discharge Space. <i>ACS Omega</i> , <b>2021</b> , 6, 29759-29764	3.9	1
7	Simultaneous Measurements of Photoabsorption and Photoelectrochemical Performance for Thickness Optimization of a Semiconductor Photoelectrode. <i>ACS Combinatorial Science</i> , <b>2020</b> , 22, 791-795	3.9	1
6	Accumulation Process of Photogenerated Electrons in Titanium(IV) Oxide Photocatalyst Particles: Photoacoustic Infrared Spectroscopy Study. <i>Journal of Physical Chemistry C</i> , <b>2022</b> , 126, 4889-4898	3.8	1
5	3.?????????????????????. <i>Electrochemistry</i> , <b>2013</b> , 81, 103-107	1.2	
4	Synthesis of diamond film and UNCD on BeCu substrate by hot filament CVD. <i>Journal of the Ceramic Society of Japan</i> , <b>2013</b> , 121, 187-194	1	

- 3 Development and Future Prospects of Photocatalyst Technology. *Journal of the Institute of Electrical Engineers of Japan*, **2010**, 130, 234-237 ○
- 2 Spatial Separation of Reaction Sites on Rutile TiO<sub>2</sub> Nanorod by Exposing Crystal Faces and Development of Visible Light Responsive Rutile TiO<sub>2</sub> Nanorod **2012**, 17-41
- 1 Smooth Electron Transfer from a Photoexcited Dye to Semiconductor Electrode Through a Swingable Molecular Interface. *Electrochemistry*, **2016**, 84, 390-393 1.2