Naoya Murakami

List of Publications by Year in Descending Order

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	Accumulation Process of Photogenerated Electrons in Titanium(IV) Oxide Photocatalyst Particles: Photoacoustic Infrared Spectroscopy Study. *Journal of Physical Chemistry C*, **2022**, 126, 4889-4898	3.8	1
73	Reduction of nitrate to ammonia using photocatalytically accumulated electrons on titanium(IV) oxide in a time-separated redox reaction. *Inorganic Chemistry Communication*, **2022**, 109585	3.1	2
72	Drastically Increase in Atomic Nitrogen Production Depending on the Dielectric Constant of Beads Filled in the Discharge Space. *ACS Omega*, **2021**, 6, 29759-29764	3.9	1
71	Development of Plasmonic Photocatalyst by Site-selective Loading of Bimetallic Nanoparticles of Au and Ag on Titanium(IV) Oxide. *ChemCatChem*, **2020**, 12, 3783-3792	5.2	7
70	Nitrogen Fixation in a Plasma/Liquid Interfacial Reaction and Its Switching between Reduction and Oxidation. *Journal of Physical Chemistry C*, **2020**, 124, 9401-9408	3.8	10
69	Simultaneous Measurements of Photoabsorption and Photoelectrochemical Performance for Thickness Optimization of a Semiconductor Photoelectrode. *ACS Combinatorial Science*, **2020**, 22, 791-795	3.9	1
68	In situ photoacoustic analysis of near-infrared absorption of rhodium-doped strontium titanate photocatalyst powder. *Chemical Communications*, **2020**, 56, 14255-14258	5.8	4
67	Determination of the internal quantum efficiency for photoelectrochemical reaction in a semiconductor photoelectrode by photoacoustic detection. *Chemical Communications*, **2020**, 56, 5417-5420	5.8	3
66	Contribution of Discharge Excited Atomic N, N *, and N to a Plasma/Liquid Interfacial Reaction as Suggested by Quantitative Analysis. *ChemPhysChem*, **2019**, 20, 1467-1474	3.2	20
65	Photoacoustic Fourier Transform Near- and Mid-Infrared Spectroscopy for Measurement of Energy Levels of Electron Trapping Sites in Titanium(IV) Oxide Photocatalyst Powders. *Journal of Physical Chemistry C*, **2019**, 123, 12169-12175	3.8	10
64	Operando Analysis of Electron Accumulation in Titanium(IV) Oxide Particles in an Aqueous Suspension Using a Photoacoustic Spectroscopic Method. *Journal of Physical Chemistry C*, **2019**, 123, 222-226	3.8	6
63	Synthesis of anatase TiO2 with exposed {001} and {101} facets and photocatalytic activity. *Rare Metals*, **2019**, 38, 287-291	5.5	18
62	Improvement of photocatalytic activity of high specific surface area graphitic carbon nitride by loading a co-catalyst. *Rare Metals*, **2019**, 38, 468-474	5.5	22
61	Reversed double-beam photoacoustic spectroscopy of metal-oxide powders for estimation of their energy-resolved distribution of electron traps and electronic-band structure. *Electrochimica Acta*, **2018**, 264, 83-90	6.7	28
60	Mid-infrared absorption of trapped electrons in titanium(iv) oxide particles using a photoacoustic FTIR technique. *Physical Chemistry Chemical Physics*, **2018**, 20, 24519-24522	3.6	7
59	In situ photoacoustic spectroscopic analysis on photocatalytic decolorization of methylene blue over titanium(IV) oxide particles. *RSC Advances*, **2016**, 6, 65518-65523	3.7	5
58	Smooth Electron Transfer from a Photoexcited Dye to Semiconductor Electrode Through a Swingable Molecular Interface. *Electrochemistry*, **2016**, 84, 390-393	1.2	

57	In situ photoacoustic FTIR studies on photocatalytic oxidation of 2-propanol over titanium(IV) oxide. *Catalysis Communications*, **2016**, 83, 1-4	3.2	6
56	A fingerprint of metal-oxide powders: energy-resolved distribution of electron traps. *Chemical Communications*, **2016**, 52, 12096-12099	5.8	56
55	Fabrication and characterization of a p-type Cu3Nb2O8 photocathode toward photoelectrochemical reduction of carbon dioxide. *Applied Catalysis B: Environmental*, **2015**, 174-175, 471-476	21.8	37
54	Low-temperature preparation of a molybdenum oxide hole collection layer by using a peroxo precursor for polymer solar cells. *Solar Energy Materials and Solar Cells*, **2015**, 143, 522-528	6.4	1
53	Attempt of Deposition of Ag-Doped Amorphous Carbon Film by Ag-Cathode DC Plasma with CH4 Flow. *Journal of Nanoscience and Nanotechnology*, **2015**, 15, 4619-31	1.3	2
52	Photocatalytic reduction of CO2 over a hybrid photocatalyst composed of WO3 and graphitic carbon nitride (g-C3N4) under visible light. *Journal of CO2 Utilization*, **2014**, 6, 17-25	7.6	163
51	Dependence of Activity of Rutile Titanium(IV) Oxide Powder for Photocatalytic Overall Water Splitting on Structural Properties. *Journal of Physical Chemistry C*, **2014**, 118, 9093-9100	3.8	54
50	Synthesis of nanofibrous carbon with herringbone structure on Ni-supported SiC particles using hot CVD apparatus. *Diamond and Related Materials*, **2014**, 48, 104-109	3.5	1
49	Improvement of Thermoelectric Performance for Sb-Doped SnO2 Ceramics Material by Addition of Cu as Sintering Additive. *Journal of Electronic Materials*, **2014**, 43, 3567-3573	1.9	16
48	Photocatalytic reduction of CO2 over exposed-crystal-face-controlled TiO2 nanorod having a brookite phase with co-catalyst loading. *Applied Catalysis B: Environmental*, **2014**, 152-153, 309-316	21.8	71
47	Complete oxidation of acetaldehyde over a composite photocatalyst of graphitic carbon nitride and tungsten(VI) oxide under visible-light irradiation. *Applied Catalysis B: Environmental*, **2014**, 150-151, 479-485	21.8	97
46	Performance of carbon material derived from starch mixed with flame retardant as electrochemical capacitor. *Journal of Power Sources*, **2014**, 267, 635-640	8.9	8
45	Spherical activated carbon derived from spherical cellulose and its performance as EDLC electrode. *Journal of Applied Polymer Science*, **2014**, 131, n/a-n/a	2.9	5
44	Solution-processed amorphous niobium oxide as a novel electron collection layer for inverted polymer solar cells. *Chemical Physics Letters*, **2013**, 586, 81-84	2.5	5
43	Effect of electrochemical treatment in H2SO4 aqueous solution on carbon material derived from cellulose with added guanidine phosphate. *Journal of Power Sources*, **2013**, 225, 150-156	8.9	4
42	Capacitance property of carbon material derived from starch mixed with guanidine phosphate as electrochemical capacitor. *Journal of Power Sources*, **2013**, 227, 24-30	8.9	9
41	Improvement of visible light responsivity of rutile TiO2 nanorods by site-selective modification of iron(III) ion on newly exposed faces formed by chemical etching treatment. *Applied Catalysis B: Environmental*, **2013**, 130-131, 264-269	21.8	8
40	Bifunctionality of Rh3+ Modifier on TiO2 and Working Mechanism of Rh3+/TiO2 Photocatalyst under Irradiation of Visible Light. *Journal of Physical Chemistry C*, **2013**, 117, 11008-11016	3.8	57

39	Development of highly efficient sulfur-doped TiO2 photocatalysts hybridized with graphitic carbon nitride. *Applied Catalysis B: Environmental*, **2013**, 142-143, 362-367	21.8	90
38	3.?????????????????????. *Electrochemistry*, **2013**, 81, 103-107	1.2	
37	Synthesis of diamond film and UNCD on BeCu substrate by hot filament CVD. *Journal of the Ceramic Society of Japan*, **2013**, 121, 187-194	1	
36	Dependence of photocatalytic activity on particle size of a shape-controlled anatase titanium(IV) oxide nanocrystal. *Journal of Molecular Catalysis A*, **2012**, 358, 106-111		23
35	Improvement of visible light photocatalytic acetaldehyde decomposition of bismuth vanadate/silica nanocomposites by cocatalyst loading. *Journal of Hazardous Materials*, **2012**, 211-212, 83-7	12.8	23
34	Improvement of photocatalytic activity of brookite titanium dioxide nanorods by surface modification using chemical etching. *Applied Surface Science*, **2012**, 258, 5803-5809	6.7	43
33	Improvement of electrical conductivity while maintaining a high-transmittance of graphene oxide/MWCNT film by hydrazine reduction. *Journal of Nanoscience and Nanotechnology*, **2012**, 12, 6930-4	1.3	6
32	Spatial Separation of Reaction Sites on Rutile TiO2 Nanorod by Exposing Crystal Faces and Development of Visible Light Responsive Rutile TiO2 Nanorod **2012**, 17-41		
31	Chemical modification of diamond surface with linoleic acid by using benzoyl peroxide. *Diamond and Related Materials*, **2011**, 20, 584-587	3.5	4
30	Photocatalytic reaction over iron hydroxides: A novel visible-light-responsive photocatalyst. *Catalysis Communications*, **2011**, 12, 341-344	3.2	16
29	Performance of nitrogen- and sulfur-containing carbon material derived from thiourea and formaldehyde as electrochemical capacitor. *Journal of Power Sources*, **2011**, 196, 10455-10460	8.9	55
28	Controlled structure of anatase TiO2 nanoparticles by using organic additives in a microwave process. *Applied Catalysis A: General*, **2011**, 406, 119-123	5.1	10
27	Dependence of Photocatalytic Activity on Aspect Ratio of Shape-Controlled Rutile Titanium(IV) Oxide Nanorods. *Journal of Physical Chemistry C*, **2011**, 115, 419-424	3.8	54
26	Improvement of capacitance value as the electrode of an electrochemical capacitor by mixing starch with guanidine phosphate. *Journal of Power Sources*, **2011**, 196, 5769-5773	8.9	19
25	Development of Visible-Light Active S cation-doped TiO2 Photocatalyst. *Current Organic Chemistry*, **2010**, 14, 699-708	1.7	9
24	Chemical modification of diamond surface with X(C6H4)COOH (X=F, Cl, Br, I) using benzoyl peroxide. *Diamond and Related Materials*, **2010**, 19, 1003-1006	3.5	2
23	Control of the crystal structure of titanium(IV) oxide by hydrothermal treatment of a titanate nanotube under acidic conditions. *CrystEngComm*, **2010**, 12, 532-537	3.3	14
22	What Are Titania Photocatalysts?An Exploratory Correlation of Photocatalytic Activity with Structural and Physical Properties. *Journal of Advanced Oxidation Technologies*, **2010**, 13,		16

21	Development of a visible-light-responsive rutile rod by site-selective modification of iron(III) ion on {111} exposed crystal faces. *Applied Catalysis B: Environmental*, **2010**, 97, 115-119	21.8	60
20	Effect of chemical etching by sulfuric acid or H2O2NH3 mixed solution on the photocatalytic activity of rutile TiO2 nanorods. *Applied Catalysis A: General*, **2010**, 380, 48-54	5.1	31
19	Development and Future Prospects of Photocatalyst Technology. *Journal of the Institute of Electrical Engineers of Japan*, **2010**, 130, 234-237	0	
18	Exposed crystal surface-controlled TiO2 nanorods having rutile phase from TiCl3 under hydrothermal conditions. *Journal of Molecular Catalysis A*, **2009**, 300, 72-79		89
17	Characterization and photocatalytic performance of carbon nanotube material-modified TiO2 synthesized by using the hot CVD process. *Applied Catalysis B: Environmental*, **2009**, 91, 533-538	21.8	24
16	Development of a visible-light-responsive titania nanotube photocatalyst by site-selective modification with hetero metal ions. *Applied Catalysis B: Environmental*, **2009**, 92, 56-60	21.8	18
15	Novel hydrothermal preparation of pure brookite-type titanium(IV) oxide nanocrystal under strong acidic conditions. *Catalysis Communications*, **2009**, 10, 963-966	3.2	39
14	Shape-Controlled Anatase Titanium(IV) Oxide Particles Prepared by Hydrothermal Treatment of Peroxo Titanic Acid in the Presence of Polyvinyl Alcohol. *Journal of Physical Chemistry C*, **2009**, 113, 3062-3069	3.8	262
13	Chemical reaction of hydrogenated diamond surface with amino acids by using N-chlorosuccinimide. *Diamond and Related Materials*, **2009**, 18, 1174-1178	3.5	1
12	Correlation between Photocatalytic Activities and Structural and Physical Properties of Titanium(IV) Oxide Powders. *Chemistry Letters*, **2009**, 38, 238-239	1.7	219
11	Pristine simple oxides as visible light driven photocatalysts: highly efficient decomposition of organic compounds over platinum-loaded tungsten oxide. *Journal of the American Chemical Society*, **2008**, 130, 7780-1	16.4	677
10	Photocatalytic Hydrogen or Oxygen Evolution from Water over S- or N-Doped TiO2under Visible Light. *International Journal of Photoenergy*, **2008**, 2008, 1-7	2.1	28
9	Development of an S-doped titania nanotube (TNT) site-selectively loaded with iron(III) oxide and its photocatalytic activities. *Applied Catalysis B: Environmental*, **2008**, 84, 584-590	21.8	38
8	In situ observation of photocatalytic reaction by photoacoustic spectroscopy: Detection of heat of exothermic photocatalytic reaction. *Chemical Physics Letters*, **2008**, 451, 316-320	2.5	11
7	Development of a titania nanotube (TNT) loaded site-selectively with Pt nanoparticles and their photocatalytic activities. *Applied Catalysis A: General*, **2008**, 337, 105-109	5.1	29
6	Switching redox site of photocatalytic reaction on titanium(IV) oxide particles modified with transition-metal ion controlled by irradiation wavelength. *Applied Catalysis A: General*, **2008**, 348, 148-152	5.1	149
5	Development of metal cation compound-loaded S-doped TiO2 photocatalysts having a rutile phase under visible light. *Applied Catalysis A: General*, **2008**, 349, 70-75	5.1	42
4	Double-Beam Photoacoustic Spectroscopic Studies on Transient Absorption of Titanium(IV) Oxide Photocatalyst Powders. *Journal of Physical Chemistry C*, **2007**, 111, 11927-11935	3.8	79

3	Photoacoustic Spectroscopic Estimation of Electron Mobility in Titanium(IV) Oxide Photocatalysts. *Studies in Surface Science and Catalysis*, **2007**, 172, 429-432	1.8	4
2	Incident light dependence for photocatalytic degradation of acetaldehyde and acetic acid on S-doped and N-doped TiO2 photocatalysts. *Chemical Physics*, **2007**, 339, 64-72	2.3	74
1	Photoacoustic spectroscopic analysis of photoinduced change in absorption of titanium(IV) oxide photocatalyst powders: A novel feasible technique for measurement of defect density. *Chemical Physics Letters*, **2006**, 426, 204-208	2.5	43