Hiroaki Tada

List of Publications by Year in descending order

179 papers	8,843 citations	50276 46 h-index	45317 90 g-index
185 all docs	185 docs citations	185 times ranked	9558 citing authors

#	Article	IF	Citations
1	All-solid-state Z-scheme in CdSâ€“Auâ€“TiO2 three-component nanojunction system. Nature Materials, 2006, 5, 782-786.	27.5	1,266
2	A Patterned TiO ₂ (Anatase)/TiO ₂ (Rutile) Bilayerâ€Type Photocatalyst: Effect of the Anatase/Rutile Junction on the Photocatalytic Activity. Angewandte Chemie - International Edition, 2002, 41, 2811-2813.	13.8	445
3	Rational design and applications of highly efficient reaction systems photocatalyzed by noble metal nanoparticle-loaded titanium(iv) dioxide. Chemical Society Reviews, 2009, 38, 1849.	38.1	315
4	Cobalt Ion-Doped TiO2 Photocatalyst Response to Visible Light. Journal of Colloid and Interface Science, 2000, 224, 202-204.	9.4	278
5	In Situ Liquid Phase Synthesis of Hydrogen Peroxide from Molecular Oxygen Using Gold Nanoparticle-Loaded Titanium(IV) Dioxide Photocatalyst. Journal of the American Chemical Society, 2010, 132, 7850-7851.	13.7	265
6	A Patterned-TiO2/SnO2 Bilayer Type Photocatalyst. Journal of Physical Chemistry B, 2000, 104, 4585-4587.	2.6	229
7	Photodeposition of metal sulfide quantum dots on titanium(iv) dioxide and the applications to solar energy conversion. Chemical Society Reviews, 2011, 40, 4232.	38.1	219
8	Titanium(IV) Dioxide Surfaceâ€Modified with Iron Oxide as a Visible Light Photocatalyst. Angewandte Chemie - International Edition, 2011, 50, 3501-3505.	13.8	202
9	Dependence of TiO2Photocatalytic Activity upon Its Film Thickness. Langmuir, 1997, 13, 360-364.	3.5	191
10	One-Step Selective Aerobic Oxidation of Amines to Imines by Gold Nanoparticle-Loaded Rutile Titanium(IV) Oxide Plasmon Photocatalyst. ACS Catalysis, 2013, 3, 10-13.	11.2	171
11	Drastic Enhancement of TiO2-Photocatalyzed Reduction of Nitrobenzene by Loading Ag Clusters. Langmuir, 2004, 20, 7898-7900.	3.5	169
12	Self-Assembled Heterosupramolecular Visible Light Photocatalyst Consisting of Gold Nanoparticle-Loaded Titanium(IV) Dioxide and Surfactant. Journal of the American Chemical Society, 2010, 132, 6292-6293.	13.7	167
13	Red-Light-Driven Water Splitting by Au(Core)â€“CdS(Shell) Half-Cut Nanoegg with Heteroepitaxial Junction. Journal of the American Chemical Society, 2018, 140, 1251-1254.	13.7	147
14	Ag Nanocluster Loading Effect on TiO2Photocatalytic Reduction of Bis(2-dipyridyl)disulfide to 2-Mercaptopyridine by H2O. Langmuir, 2000, 16, 3304-3309.	3.5	135
15	Photocatalytic activity of rutileâ€“anatase coupled TiO2 particles prepared by a dissolutionâ€“reprecipitation method. Journal of Colloid and Interface Science, 2003, 267, 377-381.	9.4	134
16	TiO₂ Crystal Form-Dependence of the Au/TiO₂ Plasmon Photocatalystâ€™s Activity. Journal of Physical Chemistry C, 2012, 116, 7111-7117.	3.1	132
17	Low-temperature synthesis of anataseâ€“brookite composite nanocrystals: the junction effect on photocatalytic activity. Journal of Colloid and Interface Science, 2005, 281, 510-513.	9.4	119
18	Goldâ€Nanoparticleâ€Loaded Carbonateâ€Modified Titanium(IV) Oxide Surface: Visibleâ€Lightâ€Driven Formation of Hydrogen Peroxide from Oxygen. Angewandte Chemie - International Edition, 2016, 55, 12773-12777.	13.8	111

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19	Facile synthesis and catalytic activity of MoS2/TiO2 by a photodeposition-based technique and its oxidized derivative MoO3/TiO2 with a unique photochromism. Journal of Colloid and Interface Science, 2011, 354, 607-610.	9.4	105
20	Light wavelength-switchable photocatalytic reaction by gold nanoparticle-loaded titanium(iv) dioxide. Chemical Communications, 2010, 46, 815-817.	4.1	103
21	High Photocatalytic Activity of F-Doped TiO2 Film on Glass. Journal of Sol-Gel Science and Technology, 2001, 22, 47-52.	2.4	101
22	Au-Core/Pt-Shell Bimetallic Cluster-Loaded TiO2. 1. Adsorption of Organosulfur Compound. Journal of Physical Chemistry B, 2002, 106, 8714-8720.	2.6	97
23	Photodeposition of Ag₂S Quantum Dots and Application to Photoelectrochemical Cells for Hydrogen Production under Simulated Sunlight. Langmuir, 2011, 27, 7294-7300.	3.5	94
24	Visible-Light-Active Iron Oxide-Modified Anatase Titanium(IV) Dioxide. Journal of Physical Chemistry C, 2011, 115, 6478-6483.	3.1	92
25	Visibleâ€Lightâ€Induced Electron Transport from Small to Large Nanoparticles in Bimodal Gold Nanoparticleâ€Loaded Titanium(IV) Oxide. Angewandte Chemie - International Edition, 2014, 53, 7305-7309.	13.8	91
26	Low-Temperature Synthesis of Nanometer-Sized Crystalline TiO2 Particles and Their Photoinduced Decomposition of Formic Acid. Journal of Colloid and Interface Science, 1999, 216, 59-64.	9.4	89
27	Deactivation of the TiO2Photocatalyst by Coupling with WO3and the Electrochemically Assisted High Photocatalytic Activity of WO3. Langmuir, 2004, 20, 4665-4670.	3.5	86
28	Photodeposition of CdS Quantum Dots on TiO₂: Preparation, Characterization, and Reaction Mechanism. Journal of Physical Chemistry C, 2009, 113, 16711-16716.	3.1	86
29	Molecular-Scale Transition Metal Oxide Nanocluster Surface-Modified Titanium Dioxide as Solar-Activated Environmental Catalysts. Journal of Physical Chemistry C, 2014, 118, 12077-12086.	3.1	80
30	Size-dependence of Fermi energy of gold nanoparticles loaded on titanium(iv) dioxide at photostationary state. Physical Chemistry Chemical Physics, 2008, 10, 6553.	2.8	78
31	Sizeâ€Dependence of Catalytic Activity of Gold Nanoparticles Loaded on Titanium (IV) Dioxide for Hydrogen Peroxide Decomposition. ChemPhysChem, 2009, 10, 2935-2938.	2.1	76
32	Low temperature-synthesis of BiVO4 nanorods using polyethylene glycol as a soft template and the visible-light-activity for copper acetylacetonate decomposition. Applied Catalysis B: Environmental, 2012, 125, 288-293.	20.2	75
33	Promoting Effect of MgOxSubmonolayer Coverage of TiO2on the Photoinduced Oxidation of Anionic Surfactants. Langmuir, 1999, 15, 3699-3702.	3.5	69
34	Origin of the Visible-Light Response of Nickel(II) Oxide Cluster Surface Modified Titanium(IV) Dioxide. Journal of Physical Chemistry C, 2013, 117, 2709-2718.	3.1	68
35	Patterned TiO2/SnO2 Bilayer Type Photocatalyst. 2. Efficient Dehydrogenation of Methanol. Langmuir, 2001, 17, 7442-7445.	3.5	65
36	Loading Effect in Copper(II) Oxide Cluster-Surface-Modified Titanium(IV) Oxide on Visible- and UV-Light Activities. Journal of Physical Chemistry C, 2013, 117, 23848-23857.	3.1	65

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37	Kinetic and DFT Studies on the Ag/TiO2-Photocatalyzed Selective Reduction of Nitrobenzene to Aniline. ChemPhysChem, 2005, 6, 1537-1543.	2.1	64
38	Mechanism of Formation of Nanocrystalline ZnO Particles through the Reaction of [Zn(acac)2] with NaOH in EtOH. Journal of Colloid and Interface Science, 1998, 200, 220-227.	9.4	61
39	Title is missing!. Journal of Sol-Gel Science and Technology, 2001, 22, 53-61.	2.4	60
40	Nickel(ii) oxide surface-modified titanium(iv) dioxide as a visible-light-active photocatalyst. Chemical Communications, 2011, 47, 8814.	4.1	59
41	Photoinduced Oxidation of Methylsiloxane Monolayers Chemisorbed on TiO2. Langmuir, 1996, 12, 966-971.	3.5	58
42	Ultrafast Photosynthetic Reduction of Elemental Sulfur by Au Nanoparticle-Loaded TiO2. Journal of Physical Chemistry B, 2006, 110, 10771-10778.	2.6	54
43	A strong support-effect on the catalytic activity of gold nanoparticles for hydrogen peroxide decomposition. Chemical Communications, 2011, 47, 3230.	4.1	53
44	PbS Quantum Dotâ€Sensitized Photoelectrochemical Cell for Hydrogen Production from Water under Illumination of Simulated Sunlight. ChemPhysChem, 2010, 11, 3592-3595.	2.1	52
45	Quantum-Dot-Sensitized Solar Cell Using a Photoanode Prepared by in Situ Photodeposition of CdS on Nanocrystalline TiO₂ Films. Journal of Physical Chemistry C, 2010, 114, 16837-16842.	3.1	52
46	Temperature- and pH-Dependence of Hydrogen Peroxide Formation from Molecular Oxygen by Gold Nanoparticle-Loaded Titanium(IV) Oxide Photocatalyst. Journal of Physical Chemistry C, 2016, 120, 1083-1088.	3.1	51
47	Formation of Au Nanoclusters on TiO2Surfaces by a Two-Step Method Consisting of Au(III)-Complex Chemisorption and Its Photoreduction. Langmuir, 2002, 18, 4191-4194.	3.5	49
48	Photoinduced Desorption of Sulfur from Gold Nanoparticles Loaded on Metal Oxide Surfaces. Journal of the American Chemical Society, 2004, 126, 15952-15953.	13.7	47
49	Rapid and Complete Removal of Nonylphenol by Gold Nanoparticle/Rutile Titanium(IV) Oxide Plasmon Photocatalyst. ACS Catalysis, 2013, 3, 903-907.	11.2	47
50	Overall water splitting and hydrogen peroxide synthesis by gold nanoparticle-based plasmonic photocatalysts. Nanoscale Advances, 2019, 1, 4238-4245.	4.6	47
51	Local Electric Field-Enhanced Plasmonic Photocatalyst: Formation of Ag Cluster-Incorporated AgBr Nanoparticles on TiO₂. Journal of Physical Chemistry C, 2016, 120, 19663-19669.	3.1	44
52	Layer-by-Layer Construction of SiOx Film on Oxide Semiconductors. Langmuir, 1995, 11, 3281-3284.	3.5	43
53	Visible light photocatalytic decomposition of 2-naphthol by anodic-biased Î±-Fe2O3 film. Journal of Colloid and Interface Science, 2006, 294, 504-507.	9.4	43
54	Enhancing Effect of SiOxMonolayer Coverage of TiO2on the Photoinduced Oxidation of Rhodamine 6G in Aqueous Media. Journal of Physical Chemistry B, 1998, 102, 6360-6366.	2.6	41

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55	Promoting Effect of SiOxMonolayer Coverage of TiO2on the Photoinduced Oxidation of Cationic Surfactants. Langmuir, 1998, 14, 2936-2939.	3.5	40
56	Heterosupramolecular photocatalysis: oxidation of organic compounds in nanospaces between surfactant bilayers formed on TiO2Electronic supplementary information available: further characterization data and experimental details. See http://www.rsc.org/suppdata/cc/b2/b204593a/. Chemical Communications, 2002, , 1678-1679.	4.1	39
57	Manganese Oxide-Surface Modified Titanium (IV) Dioxide as Environmental Catalyst. Catalysts, 2013, 3, 444-454.	3.5	39
58	Visible-light-induced water oxidation by a hybrid photocatalyst consisting of bismuth vanadate and copper(<scp>ii</scp>) meso-tetra(4-carboxyphenyl)porphyrin. Chemical Communications, 2016, 52, 3665-3668.	4.1	39
59	Ag(core)â€“AgCl(shell) standard microelectrode-loaded TiO2. Chemical Communications, 2007, , 4291.	4.1	38
60	Sizeâ€Ðependence of the Activity of Gold Nanoparticleâ€Łoaded Titanium(IV) Oxide Plasmonic Photocatalyst for Water Oxidation. ChemPhysChem, 2016, 17, 2813-2817.	2.1	37
61	Molecular Metal Oxide Cluster-Surface Modified Titanium(IV) Dioxide Photocatalysts. Australian Journal of Chemistry, 2012, 65, 624.	0.9	36
62	Additive Effect of Sacrificial Electron Donors on Ag/TiO2Photocatalytic Reduction of Bis(2-dipyridyl)disulfide to 2-Mercaptopyridine in Aqueous Media. Langmuir, 1999, 15, 7084-7087.	3.5	35
63	Ultrathin SiOx Film Coating Effect on the Wettability Change of TiO2 Surfaces in the Presence and Absence of UV Light Illumination. Journal of Colloid and Interface Science, 2000, 232, 410-413.	9.4	35
64	Interfacial chemical bonding effect on the photocatalytic activity of TiO2â€“SiO2 nanocoupling systems. Journal of Colloid and Interface Science, 2011, 361, 628-631.	9.4	35
65	A new bimetallic plasmonic photocatalyst consisting of gold(core)-copper(shell) nanoparticle and titanium(IV) oxide support. APL Materials, 2015, 3, .	5.1	35
66	Visible-Light-Driven Copper Acetylacetonate Decomposition by BiVO₄. Langmuir, 2011, 27, 10334-10339.	3.5	34
67	Multiâ€Electron Oxygen Reduction by a Hybrid Visibleâ€Lightâ€Photocatalyst Consisting of Metalâ€Oxide Semiconductor and Selfâ€Assembled Biomimetic Complex. Angewandte Chemie - International Edition, 2014, 53, 13894-13897.	13.8	34
68	High Coverage Formation of CdS Quantum Dots on TiO₂ by the Photocatalytic Growth of Preformed Seeds. Journal of Physical Chemistry C, 2016, 120, 17365-17371.	3.1	34
69	Conformational Change Restricted Selectivity in the Surface Sulfonation of Polypropylene with Sulfuric Acid. Langmuir, 1997, 13, 3982-3989.	3.5	32
70	Reaction Mechanism of the Multiple-Electron Oxygen Reduction Reaction on the Surfaces of Gold and Platinum Nanoparticles Loaded on Titanium(IV) Oxide. Journal of Physical Chemistry Letters, 2016, 7, 5002-5007.	4.6	32
71	Gold(Core)â€“Lead(Shell) Nanoparticleâ€Łoaded Titanium(IV) Oxide Prepared by Underpotential Photodeposition: Plasmonic Water Oxidation. Angewandte Chemie - International Edition, 2017, 56, 10347-10351.	13.8	31
72	The effect of nanometre-sized Au particle loading on TiO2 photocatalysed reduction of bis(2-dipyridyl)disulfide to 2-mercaptopyridine by H2O. Physical Chemistry Chemical Physics, 2001, 3, 1376-1382.	2.8	27

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73	Dependence of the plasmonic activity of Au/TiO2 for the decomposition of 2-naphthol on the crystal form of TiO2 and Au particle size. Journal of Catalysis, 2018, 364, 328-333.	6.2	26
74	Highly Efficient and Selective Oxidation of Ethanol to Acetaldehyde by a Hybrid Photocatalyst Consisting of SnO 2 Nanorod and Rutile TiO 2 with Heteroepitaxial Junction. ChemPhysChem, 2019, 20, 2155-2161.	2.1	26
75	SiOx Ultrathin Layer Coverage Effect on the (Photo)catalytic Activities of Rutile TiO2. Journal of Physical Chemistry C, 2008, 112, 8702-8707.	3.1	25
76	Correlations between Wetting and Structure in Methylsiloxane Layers on Oxides Formed by Chemical Vapor Surface Modification. The Journal of Physical Chemistry, 1994, 98, 12452-12457.	2.9	24
77	Simultaneous induction of high level thermal and visible-light catalytic activities to titanium(iv) oxide by surface modification with cobalt(iii) oxide clusters. Physical Chemistry Chemical Physics, 2013, 15, 20313.	2.8	24
78	Rapid removal and subsequent low-temperature mineralization of gaseous acetaldehyde by the dual thermocatalysis of gold nanoparticle-loaded titanium(IV) oxide. Journal of Catalysis, 2015, 326, 9-14.	6.2	24
79	Visibleâ€Light Activity Enhancement of Goldâ€Nanoparticleâ€Loaded Titanium(IV) Dioxide by Preferential Excitation of Localized Surface Plasmon Resonance. ChemPhysChem, 2011, 12, 2719-2723.	2.1	23
80	Fermi Level Control of Gold Nanoparticle by the Support: Activation of the Catalysis for Selective Aerobic Oxidation of Alcohols. Journal of Physical Chemistry C, 2016, 120, 12440-12445.	3.1	23
81	Size, shape and interface control in gold nanoparticle-based plasmonic photocatalysts for solar-to-chemical transformations. Dalton Transactions, 2019, 48, 6308-6313.	3.3	23
82	Visibleâ€Lightâ€Induced Electron Transport from Small to Large Nanoparticles in Bimodal Gold Nanoparticleâ€Loaded Titanium(IV) Oxide. Angewandte Chemie, 2014, 126, 7433-7437.	2.0	22
83	Photocatalytic Current Doubling-Induced Generation of Uniform Selenium and Cadmium Selenide Quantum Dots on Titanium(IV) Oxide. Journal of Physical Chemistry C, 2014, 118, 8917-8924.	3.1	22
84	A Three-Component Plasmonic Photocatalyst Consisting of Gold Nanoparticle and TiO2â€“SnO2 Nanohybrid with Heteroepitaxial Junction: Hydrogen Peroxide Synthesis. Journal of Physical Chemistry C, 2020, 124, 7797-7802.	3.1	22
85	Patterned TiO2/SnO2Bilayer Type Photocatalyst. 3. Preferential Deposition of Pt Particles on the SnO2Underlayer and Its Effect on Photocatalytic Activity. Langmuir, 2004, 20, 3816-3819.	3.5	21
86	Ultrafast Photodeposition of Sizeâ€Controlled PbS Quantum Dots on TiO₂. ChemPhysChem, 2010, 11, 2349-2352.	2.1	21
87	Photodeposition of copper sulphide nanocrystals on titanium(iv) oxide nanorods and their application in smart windows. RSC Advances, 2013, 3, 10414.	3.6	21
88	Electrochemically Assisted Visible Light Photocatalysis in a Heterosupramolecular System Consisting of Î±-Fe2O3 and Surfactant Molecular Assembly. Langmuir, 2007, 23, 8593-8596.	3.5	20
89	Goldâ€Nanoparticleâ€Loaded Carbonateâ€Modified Titanium(IV) Oxide Surface: Visibleâ€Lightâ€Driven Formation of Hydrogen Peroxide from Oxygen. Angewandte Chemie, 2016, 128, 12965-12969.	2.0	20
90	A Large-Area Patterned TiO2/SnO2 Bilayer Type Photocatalyst Prepared by Gravure Printing. Journal of Sol-Gel Science and Technology, 2003, 27, 301-307.	2.4	19

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91	Surface Properties and Photocatalytic Activity of Ptcore/Agshell Nanoparticle-Loaded TiO2. ChemPhysChem, 2006, 7, 1687-1691.	2.1	19
92	A green process for coupling manganese oxides with titanium(iv) dioxide. Chemical Communications, 2008, , 3564.	4.1	19
93	Prediction of the Main Route in the TiO₂â€Photocatalyzed Degradation of Organic Compounds in Water by Density Functional Calculations. ChemPhysChem, 2012, 13, 3457-3461.	2.1	19
94	Coverage control of CdSe quantum dots in the photodeposition on TiO2 for the photoelectrochemical solar hydrogen generation. Journal of Colloid and Interface Science, 2016, 474, 34-40.	9.4	19
95	Hydrogen peroxide-photofuel cell using TiO2 photoanode. Electrochemistry Communications, 2017, 84, 71-74.	4.7	19
96	Visible Light-Driven Selective Aerobic Oxidation of Benzylalcohols to Benzaldehydes by a Cu(acac)₂-BiVO₄-Admicelle Three-Component Heterosupramolecular Photocatalyst. Journal of Physical Chemistry C, 2015, 119, 11771-11776.	3.1	18
97	Photoinduced polymerization of 1,3,5,7-tetramethylcyclotetrasiloxane by titania particles. The Journal of Physical Chemistry, 1991, 95, 10185-10188.	2.9	17
98	Highly Active Supported Plasmonic Photocatalyst Consisting of Gold Nanoparticle-Loaded Mesoporous Titanium(IV) Oxide Overlayer and Conducting Substrate. Journal of Physical Chemistry C, 2014, 118, 26887-26893.	3.1	17
99	Surface charge-transfer complex formation of catechol on titanium(IV) oxide and the application to bio-sensing. Journal of Colloid and Interface Science, 2015, 458, 305-309.	9.4	17
100	Solar-Driven One-Compartment Hydrogen Peroxide-Photofuel Cell Using Bismuth Vanadate Photoanode. ACS Omega, 2018, 3, 12099-12105.	3.5	17
101	Visible-Light-Driven Hydrogen Peroxide Synthesis by a Hybrid Photocatalyst Consisting of Bismuth Vanadate and Bis(hexafluoroacetylacetonato)copper(II) Complex. Journal of Physical Chemistry C, 2020, 124, 3715-3721.	3.1	17
102	Two-Step Excitation-Driven Auâ€“TiO2â€“CuO Three-Component Plasmonic Photocatalyst: Selective Aerobic Oxidation of Cyclohexylamine to Cyclohexanone. Journal of Physical Chemistry C, 2016, 120, 27989-27995.	3.1	16
103	Water splitting by plasmonic photocatalysts with a gold nanoparticle/cadmium sulfide heteroepitaxial junction: A mini review. Electrochemistry Communications, 2018, 97, 22-26.	4.7	16
104	Room-temperature selective oxidation of 2-naphthol to BINOL using a Au/SrTiO₃â€“H₂O₂catalytic system. Chemical Communications, 2015, 51, 17669-17671.	4.1	15
105	Photoinduced dissolution and redeposition of Au nanoparticles supported on TiO2. Journal of Colloid and Interface Science, 2005, 286, 816-819.	9.4	14
106	Photodeposition of Prussian Blue on TiO2 Particles. Journal of the Electrochemical Society, 1991, 138, 140-144.	2.9	13
107	Electron Filtering by an Intervening ZnS Thin Film in the Gold Nanoparticle-Loaded CdS Plasmonic Photocatalyst. Journal of Physical Chemistry Letters, 2017, 8, 86-90.	4.6	13
108	Photocatalytic Synthesis of CdS(core)â€“CdSe(shell) Quantum Dots with a Heteroepitaxial Junction on TiO₂: Photoelectrochemical Hydrogen Generation from Water. ChemPhysChem, 2017, 18, 2840-2845.	2.1	13

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109	In Situ Shape Change of Au Nanoparticles on TiO₂ by CdS Photodeposition: Its Near-Field Enhancement Effect on Photoinduced Electron Injection from CdS to TiO₂. ACS Omega, 2018, 3, 6104-6112.	3.5	13
110	Electrochemically regenerative visible light-induced reactivity of Î±-Fe2O3 films with Ag(core)â€“AgCl(shell) microcrystal composites. Electrochemistry Communications, 2008, 10, 1132-1135.	4.7	12
111	Subâ€Bandgap Excitationâ€Induced Electron Injection from CdSe Quantum Dots to TiO₂ in a Directly Coupled System. ChemPhysChem, 2015, 16, 1846-1851.	2.1	12
112	Hydrogen peroxide synthesis from water and oxygen using a three-component nanohybrid photocatalyst consisting of Au particle-loaded rutile TiO2 and RuO2 with a heteroepitaxial junction. Chemical Communications, 2020, 56, 8190-8193.	4.1	12
113	Rational design for gold nanoparticle-based plasmonic catalysts and electrodes for water oxidation towards artificial photosynthesis. Dalton Transactions, 2022, 51, 3383-3393.	3.3	12
114	One-Pot Process for Anodic Oxide Films of Titanium with High Photocatalytic Activity. Materials Transactions, 2004, 45, 1607-1612.	1.2	11
115	Dispersion stability of TiO2 nanoparticles covered with SiOx monolayers in water. Journal of Colloid and Interface Science, 2007, 306, 274-280.	9.4	11
116	Rapid removal and decomposition of gaseous acetaldehyde by the thermo- and photo-catalysis of gold nanoparticle-loaded anatase titanium(IV) oxide. Journal of Colloid and Interface Science, 2015, 456, 161-165.	9.4	11
117	Photodeposition of Prussian Blue Films on TiO2: Additive Effect of Methanol and Influence of the TiO2 Crystal Form. Journal of Colloid and Interface Science, 2001, 239, 196-199.	9.4	10
118	In situ room temperature synthesis of a polyanilineâ€“goldâ€“titanium(<scp>iv</scp>) dioxide heteronanojunction system. Chemical Communications, 2013, 49, 520-522.	4.1	10
119	Plasmonic effect in Au(core)-CdS(shell) quantum dot-sensitized photoelectrochemical cell for hydrogen generation from water. Applied Physics Letters, 2017, 111, .	3.3	10
120	One-Compartment Hydrogen Peroxide-Photofuel Cell Using TiO₂Photoanode and Prussian Blue Cathode. Journal of the Electrochemical Society, 2018, 165, F300-F304.	2.9	9
121	Photo-effect on the electromotive force in two-compartment hydrogen peroxide-photofuel cell. Electrochemistry Communications, 2018, 93, 31-34.	4.7	9
122	Nanohybrid Catalysts for Efficient Synthesis of Hydrogen Peroxide at Ambient Temperature and Pressure. Journal of Physical Chemistry C, 2019, 123, 9831-9837.	3.1	9
123	Size effect of zinc oxide-supported gold nanoparticles on the photocatalytic activity for two-electron oxygen reduction reaction. Catalysis Communications, 2020, 144, 106076.	3.3	9
124	Kinetic and DFT Studies on the Photoinduced Desorption of Sulfur from Gold Nanoparticles Loaded on Titanium Dioxide. ChemPhysChem, 2005, 6, 2508-2512.	2.1	8
125	Synthesis of 1D-Anisotropic Particles Consisting of TiO₂ Nanorods and SnO₂ with Heteroepitaxial Junctions and Self-Assembled 3D-Microspheres. Langmuir, 2019, 35, 17096-17102.	3.5	8
126	Photothermal effect of antimony-doped tin oxide nanocrystals on the photocatalysis. Catalysis Communications, 2020, 142, 106044.	3.3	8

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127	Electrocatalytic Effect on the Photon-to-Current Conversion Efficiency of Gold-Nanoparticle-Loaded Titanium(IV) Oxide Plasmonic Electrodes for Water Oxidation. Journal of Physical Chemistry C, 2020, 124, 6103-6109.	3.1	8
128	Atomic Level Interface Control of SnO2-TiO2 Nanohybrids for the Photocatalytic Activity Enhancement. Catalysts, 2021, 11, 205.	3.5	8
129	Adsorption of 2,2â€²-Dipyridyl Disulfide on Au/Pt Core/Shell Bimetallic Clusters Loaded on TiO2: Fine Control of Adsorptivity for Organosulfur Compounds. ChemPhysChem, 2002, 3, 617-620.	2.1	7
130	Lead selenideâ€“Titanium dioxide heteronanojunction formation by photocatalytic current doubling-induced two-step photodeposition technique. Journal of Colloid and Interface Science, 2015, 457, 248-253.	9.4	7
131	Synthesis of Auâ€“Ag Alloy Nanoparticle-Incorporated AgBr Crystals. Catalysts, 2019, 9, 745.	3.5	7
132	Nanohybrid Crystals with Heteroepitaxial Junctions for Solar-to-Chemical Transformations. Journal of Physical Chemistry C, 2020, 124, 25657-25666.	3.1	7
133	Highly Active and Renewable Catalytic Electrodes for Two-Electron Oxygen Reduction Reaction. Langmuir, 2022, 38, 4785-4792.	3.5	7
134	A bi-overlayer type plasmonic photocatalyst consisting of mesoporous Au/TiO₂ and CuO/SnO₂ films separately coated on FTO. Physical Chemistry Chemical Physics, 2015, 17, 18004-18010.	2.8	6
135	Gold(Core)â€“Lead(Shell) Nanoparticleâ€Loaded Titanium(IV) Oxide Prepared by Underpotential Photodeposition: Plasmonic Water Oxidation. Angewandte Chemie, 2017, 129, 10483-10487.	2.0	6
136	Solid-Phase Photochemical Growth of Composition-Variable Auâ€“Ag Alloy Nanoparticles in AgBr Crystal. Journal of Physical Chemistry C, 2017, 121, 20763-20768.	3.1	6
137	Ultrathin Silicon Oxide Filmâ€Induced Enhancement of Charge Separation and Transport of Nanostructured Titanium(IV) Oxide Photoelectrode. ChemPhysChem, 2019, 20, 2054-2059.	2.1	6
138	Action of chloride ions as a habit modifier in the hydrothermal crystal growth of rutile TiO2 nanorod from SnO2 seed crystal. Chemical Physics Letters, 2020, 761, 138003.	2.6	6
139	Auâ€“Ag alloy nanoparticle-incorporated AgBr plasmonic photocatalyst. Scientific Reports, 2020, 10, 19972.	3.3	6
140	Heat treatment effect of a hybrid consisting of SnO2 nanorod and rutile TiO2 with heteroepitaxial junction on the photocatalytic activity. Catalysis Communications, 2020, 147, 106148.	3.3	6
141	Radial TiO2 Nanorod-Based Mesocrystals: Synthesis, Characterization, and Applications. Catalysts, 2021, 11, 1298.	3.5	6
142	Antimony-Doped Tin Oxide Catalysts for Green and Sustainable Chemistry. Journal of Physical Chemistry C, 2022, 126, 13539-13547.	3.1	6
143	Low-Temperature Photocleaning of Sulfur-Poisoned Au Nanoparticles on Titanium Dioxide Film. Electrochemical and Solid-State Letters, 2006, 9, E9.	2.2	5
144	Photoinduced Sulfur Desorption from Platinum Nanoparticles Loaded on Titanium Dioxide. Chemistry Letters, 2007, 36, 1214-1215.	1.3	5

#	Article	IF	Citations
145	Rapid Removal and Mineralization of Bisphenol A by Heterosupramolecular Plasmonic Photocatalyst Consisting of Gold Nanoparticle-Loaded Titanium(IV) Oxide and Surfactant Admicelle. Langmuir, 2017, 33, 10468-10472.	3.5	5
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