Tsunehiro Tanaka

List of Publications by Year
in descending order

187 papers	9,088 citations	38742 50 h-index	48315 88 g-index
194 all docs	194 docs citations	194 times ranked	9977 citing authors

#	Article	IF	Citations
1	Effect of the in situ addition of chromate ions on H2 evolution during the photocatalytic conversion of CO2 using H2O as the electron donor. Catalysis Today, 2023, 410, 273-281.	4.4	1
2	In situ time-resolved XAS study on metal-support-interaction-induced morphology change of PtO2 nanoparticles supported on Î³-Al2O3 under H2 reduction. Catalysis Today, 2022, , .	4.4	3
3	Formation of CH₄ at the Metalâ€Support Interface of Pt/Al₂O₃ During Hydrogenation of CO₂: <i>Operando</i> XASâ€DRIFTS Study. ChemCatChem, 2022, 14, .	3.7	7
4	Oxygen Storage Capacity of Co-Doped SrTiO₃ with High Redox Performance. Journal of Physical Chemistry C, 2022, 126, 4415-4422.	3.1	7
5	Dynamic behavior of Pd/Ca2AlMnO5+Î´ for purifying automotive exhaust gases under fluctuating oxygen concentration. Catalysis Today, 2022, , .	4.4	0
6	A theoretical investigation into the role of catalyst support and regioselectivity of molecular adsorption on a metal oxide surface: NO reduction on Cu/Î³-alumina. Physical Chemistry Chemical Physics, 2021, 23, 2575-2585.	2.8	2
7	Identification of hydrogen species on Pt/Al₂O₃ by <i>in situ</i> inelastic neutron scattering and their reactivity with ethylene. Catalysis Science and Technology, 2021, 11, 116-123.	4.1	6
8	Real-time observation of the effect of oxygen storage materials on Pd-based three-way catalysts under ideal automobile exhaust conditions: an <i>operando</i> study. Catalysis Science and Technology, 2021, 11, 6182-6190.	4.1	9
9	Dual Ag/Co cocatalyst synergism for the highly effective photocatalytic conversion of CO₂ by H₂O over Al-SrTiO₃. Chemical Science, 2021, 12, 4940-4948.	7.4	34
10	Oxidation and Storage Mechanisms for Nitrogen Oxides on Variously Terminated (001) Surfaces of SrFeO_{3âˆ'Î´} and Sr₃Fe₂O_{7âˆ'Î´} Perovskites. ACS Applied Materials & Interfaces, 2021, 13, 7216-7226.	8.0	14
11	Preparation of Ag-Loaded Ga₂O₃ Particles by the Ultrasonic Reduction Method and their Photocatalytic Activities for CO₂ Reduction. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2021, 68, 93-98.	0.2	0
12	Observation of Adsorbed Hydrogen Species on Supported Metal Catalysts by Inelastic Neutron Scattering. Topics in Catalysis, 2021, 64, 660-671.	2.8	2
13	Oxygen Release and Storage Property of Feâ€"Al Spinel Compounds: A Three-Way Catalytic Reaction over a Supported Rh Catalyst. ACS Applied Materials & Interfaces, 2021, 13, 24615-24623.	8.0	4
14	Recent Applications of X-ray Absorption Spectroscopy in Combination with High Energy Resolution Fluorescence Detection. Chemistry Letters, 2021, 50, 1075-1085.	1.3	6
15	Local Structure and L₁- and L₃-Edge X-ray Absorption Near Edge Structures of Middle Lanthanoid Elements (Eu, Gd, Tb, and Dy) in Their Complex Oxides. Inorganic Chemistry, 2021, 60, 9359-9367.	4.0	8
16	Ionic Liquid-Stabilized Single-Atom Rh Catalyst Against Leaching. CCS Chemistry, 2021, 3, 1814-1822.	7.8	30
17	Strong Metalâ€"Support Interaction in Pd/Ca2AlMnO5+Î´: Catalytic NO Reduction over Mn-Doped CaO Shell. ACS Catalysis, 2021, 11, 7996-8003.	11.2	9
18	NO_{<i>x</i>} Storage Performance at Low Temperature over Platinum Group Metal-Free SrTiO₃-Based Material. ACS Applied Materials & Interfaces, 2021, 13, 29482-29490.	8.0	9

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19	Highly Selective Photocatalytic Conversion of Carbon Dioxide by Water over Al-SrTiO₃ Photocatalyst Modified with Silverâ€"Metal Dual Cocatalysts. ACS Sustainable Chemistry and Engineering, 2021, 9, 9327-9335.	6.7	26
20	Development of Zinc Hydroxide as an Abundant and Universal Cocatalyst for the Selective Photocatalytic Conversion of CO 2 by H 2 O. ChemCatChem, 2021, 13, 4313.	3.7	4
21	Low-Temperature NOx Storage Capability of YBaCo4O7+Î´ Originating from Large Oxygen Nonstoichiometry. Industrial & Engineering Chemistry Research, 2021, 60, 9817-9823.	3.7	0
22	Shift of active sites via in-situ photodeposition of chromate achieving highly selective photocatalytic conversion of CO2 by H2O over ZnTa2O6. Applied Catalysis B: Environmental, 2021, 298, 120508.	20.2	9
23	Effect of Zn in Ag-Loaded Zn-Modified ZnTa₂O₆ for Photocatalytic Conversion of CO₂ by H₂O. Journal of Physical Chemistry C, 2021, 125, 1304-1312.	3.1	10
24	xTunes: A new XAS processing tool for detailed and on-the-fly analysis. Radiation Physics and Chemistry, 2020, 175, 108270.	2.8	36
25	Enhanced CO evolution for photocatalytic conversion of CO2 by H2O over Ca modified Ga2O3. Communications Chemistry, 2020, 3, .	4.5	26
26	Zeoliteâ€Encaged Pdâ€"Mn Nanocatalysts for CO₂ Hydrogenation and Formic Acid Dehydrogenation. Angewandte Chemie, 2020, 132, 20358-20366.	2.0	22
27	Zeoliteâ€Encaged Pdâ€"Mn Nanocatalysts for CO₂ Hydrogenation and Formic Acid Dehydrogenation. Angewandte Chemie - International Edition, 2020, 59, 20183-20191.	13.8	175
28	Optimized Synthesis of Agâ€Modified Alâ€Doped SrTiO₃ Photocatalyst for the Conversion of CO₂ Using H₂O as an Electron Donor. ChemistrySelect, 2020, 5, 8779-8786.	1.5	26
29	Fe-Modified CuNi Alloy Catalyst as a Nonprecious Metal Catalyst for Three-Way Catalysis. Industrial & Engineering Chemistry Research, 2020, 59, 19907-19917.	3.7	15
30	Niâ€"Pt Alloy Nanoparticles with Isolated Pt Atoms and Their Cooperative Neighboring Ni Atoms for Selective Hydrogenation of CO₂ Toward CH₄ Evolution: <i>In Situ</i> and Transient Fourier Transform Infrared Studies. ACS Applied Nano Materials, 2020, 3, 9633-9644.	5.0	24
31	Low-temperature NO oxidation using lattice oxygen in Fe-site substituted SrFeO3â^'Î´. Physical Chemistry Chemical Physics, 2020, 22, 24181-24190.	2.8	10
32	Deactivation Mechanism and Enhanced Durability of V₂O₅/TiO₂â€"SiO₂â€"MoO₃ Catalysts for NH₃â^'SCR in the Presence of SO₂. ChemCatChem, 2020, 12, 5938-5947.	3.7	13
33	Self-Regeneration Process of Niâ€"Cu Alloy Catalysts during a Three-Way Catalytic Reactionâ€"An <i>Operando</i> Study. ACS Applied Materials & Interfaces, 2020, 12, 55994-56003.	8.0	5
34	Excellent Catalytic Activity of a Pdâ€Promoted MnO x Catalyst for Purifying Automotive Exhaust Gases. ChemCatChem, 2020, 12, 4276-4280.	3.7	11
35	Effect of molybdenum on the structure and performance of V2O5/TiO2â€"SiO2â€"MoO3 catalysts for the oxidative degradation of o-chlorotoluene. Applied Catalysis A: General, 2020, 595, 117496.	4.3	11
36	Photocatalytic conversion of CO2 by H2O over heterogeneous photocatalysts. , 2020, , 179-190.		1

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37	Imparting CO₂ reduction selectivity to ZnGa₂O₄ photocatalysts by crystallization from hetero nano assembly of amorphous-like metal hydroxides. RSC Advances, 2020, 10, 8066-8073.	3.6	15
38	<i>In Situ</i> XANES Characterization of V₂O₅/TiO₂â€“SiO₂â€“MoO₃ Catalyst for Selective Catalytic Reduction of NO by NH₃. Industrial & Engineering Chemistry Research, 2020, 59, 13467-13476.	3.7	7
39	Effect of Surface Reforming via O₃ Treatment on the Electrochemical CO₂ Reduction Activity of a Ag Cathode. ACS Applied Energy Materials, 2020, 3, 6552-6560.	5.1	9
40	Photoelectrochemical investigation of the role of surface-modified Yb species in the photocatalytic conversion of CO2 by H2O over Ga2O3 photocatalysts. Catalysis Today, 2020, 352, 18-26.	4.4	5
41	Dynamics of the Lattice Oxygen in a Ruddlesdenâ€“Popper-type Sr3Fe2O7âˆ’Î´ Catalyst during NO Oxidation. ACS Catalysis, 2020, 10, 2528-2537.	11.2	12
42	Effective Driving of Ag-Loaded and Al-Doped SrTiO₃ under Irradiation at Î» > 300 nm for the Photocatalytic Conversion of CO₂ by H₂O. ACS Applied Energy Materials, 2020, 3, 1468-1475.	5.1	56
43	CO and C3H6 oxidation over platinum-group metal (PGM) catalysts supported on Mn-modified hexagonal YbFeO3. Catalysis Today, 2019, 332, 183-188.	4.4	9
44	Isolated Platinum Atoms in Ni/Î³-Al₂O₃ for Selective Hydrogenation of CO₂ toward CH₄. Journal of Physical Chemistry C, 2019, 123, 23446-23454.	3.1	29
45	Quantum Chemical Computation-Driven Development of Cu-Shellâ€“Ru-Core Nanoparticle Catalyst for NO Reduction Reaction. Journal of Physical Chemistry C, 2019, 123, 20251-20256.	3.1	5
46	NOx Oxidation and Storage Properties of a Ruddlesdenâ€“Popper-Type Sr3Fe2O7âˆ’Î´-Layered Perovskite Catalyst. ACS Applied Materials & Interfaces, 2019, 11, 26985-26993.	8.0	23
47	Important Role of Strontium Atom on the Surface of Sr₂KTa₅O₁₅ with a Tetragonal Tungsten Bronze Structure to Improve Adsorption of CO₂ for Photocatalytic Conversion of CO₂ by H₂O. ACS Applied Materials & Interfaces, 2019, 11, 37875-37884.	8.0	9
48	Efficient oxygen storage property of Srâ€“Fe mixed oxide as automotive catalyst support. Journal of Materials Chemistry A, 2019, 7, 1013-1021.	10.3	12
49	The importance of direct reduction in the synthesis of highly active Ptâ€“Sn/SBA-15 for <i>n</i>-butane dehydrogenation. Catalysis Science and Technology, 2019, 9, 947-956.	4.1	14
50	Effect of Cr Species on Photocatalytic Stability during the Conversion of CO₂ by H₂O. Journal of Physical Chemistry C, 2019, 123, 2894-2899.	3.1	7
51	Role of Bicarbonate Ions in Aqueous Solution as a Carbon Source for Photocatalytic Conversion of CO₂ into CO. ACS Applied Energy Materials, 2019, 2, 5397-5405.	5.1	16
52	Deactivation Mechanism of Pd/CeO₂â€“ZrO₂Three-Way Catalysts Analyzed by Chassis-Dynamometer Tests and<i>in Situ</i>Diffuse Reflectance Spectroscopy. ACS Catalysis, 2019, 9, 6415-6424.	11.2	40
53	Self-regeneration of a Niâ€“Cu alloy catalyst during a three-way catalytic reaction. Physical Chemistry Chemical Physics, 2019, 21, 18816-18822.	2.8	16
54	In situ spectroscopy-guided engineering of rhodium single-atom catalysts for CO oxidation. Nature Communications, 2019, 10, 1330.	12.8	177

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55	Model building of metal oxide surfaces and vibronic coupling density as a reactivity index: Regioselectivity of CO2 adsorption on Ag-loaded Ga2O3. Chemical Physics Letters, 2019, 715, 239-243.	2.6	2
56	Ptâ€“Co Alloy Nanoparticles on a Î³â€Al₂O₃ Support: Synergistic Effect between Isolated Electronâ€Rich Pt and Co for Automotive Exhaust Purification. ChemPlusChem, 2019, 84, 447-456.	2.8	12
57	Effect of Thickness of Chromium Hydroxide Layer on Ag Cocatalyst Surface for Highly Selective Photocatalytic Conversion of CO₂ by H₂O. ACS Sustainable Chemistry and Engineering, 2019, 7, 2083-2090.	6.7	32
58	Necessary and sufficient conditions for the successful three-phase photocatalytic reduction of CO₂ by H₂O over heterogeneous photocatalysts. Physical Chemistry Chemical Physics, 2018, 20, 8423-8431.	2.8	38
59	A nanoLDH catalyst with high CO₂ adsorption capability for photo-catalytic reduction. Journal of Materials Chemistry A, 2018, 6, 9684-9690.	10.3	43
60	Striking Oxygen-Release/Storage Properties of Fe-Site-Substituted Sr₃Fe₂O_{7âˆ’Î´}. Journal of Physical Chemistry C, 2018, 122, 11186-11193.	3.1	21
61	Recent progress in photocatalytic conversion of carbon dioxide over gallium oxide and its nanocomposites. Current Opinion in Chemical Engineering, 2018, 20, 114-121.	7.8	15
62	Catalytic amino acid production from biomass-derived intermediates. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 5093-5098.	7.1	168
63	Flux method fabrication of potassium rare-earth tantalates for CO2 photoreduction using H2O as an electron donor. Catalysis Today, 2018, 300, 173-182.	4.4	24
64	Role of lattice oxygen and oxygen vacancy sites in platinum group metal catalysts supported on Sr₃Fe₂O_{7âˆ’Î´} for NO-selective reduction. Catalysis Science and Technology, 2018, 8, 147-153.	4.1	29
65	Dynamic Behavior of Rh Species in Rh/Al₂O₃ Model Catalyst during Three-Way Catalytic Reaction: An <i>Operando</i> X-ray Absorption Spectroscopy Study. Journal of the American Chemical Society, 2018, 140, 176-184.	13.7	55
66	Modification of Ga₂O₃by an Agâ€“Cr coreâ€“shell cocatalyst enhances photocatalytic CO evolution for the conversion of CO₂by H₂O. Chemical Communications, 2018, 54, 1053-1056.	4.1	53
67	A feasibility study of â€œrange-extendedâ€• EXAFS measurement at the Pt L₃-edge of Pt/Al₂O₃ in the presence of Au₂O₃. Journal of Analytical Atomic Spectrometry, 2018, 33, 84-89.	3.0	10
68	Metalâ€Dependent Support Effects of Oxyhydrideâ€Supported Ru, Fe, Co Catalysts for Ammonia Synthesis. Advanced Energy Materials, 2018, 8, 1801772.	19.5	111
69	Regioselectivity of H₂ Adsorption on Ga₂O₃ Surface Based on Vibronic Coupling Density Analysis. Journal of Computer Chemistry Japan, 2018, 17, 138-141.	0.1	1
70	A detailed insight into the catalytic reduction of NO operated by Crâ€“Cu nanostructures embedded in a CeO₂ surface. Physical Chemistry Chemical Physics, 2018, 20, 25592-25601.	2.8	14
71	Development of Rh-Doped Ga₂O₃ Photocatalysts for Reduction of CO₂ by H₂O as an Electron Donor at a More than 300 nm Wavelength. Journal of Physical Chemistry C, 2018, 122, 21132-21139.	3.1	22
72	Photocatalytic Conversion of Carbon Dioxide over A₂BTa₅O₁₅ (A) Tj ETQq0 0 0 rgBT /Overlock 1 Engineering, 2018, 6, 8247-8255.	6.7	8

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73	Mechanism of NOâ€“CO reaction over highly dispersed cuprous oxide on Î³-alumina catalyst using a metalâ€“support interfacial site in the presence of oxygen: similarities to and differences from biological systems. Catalysis Science and Technology, 2018, 8, 3833-3845.	4.1	16
74	Probing the Entropic Effect in Molecular Noncovalent Interactions between Resinâ€Bound Polybrominated Arenes and Small Substrates. ChemPlusChem, 2018, 83, 820-824.	2.8	1
75	Elucidating strong metal-support interactions in Ptâ€“Sn/SiO2 catalyst and its consequences for dehydrogenation of lower alkanes. Journal of Catalysis, 2018, 365, 277-291.	6.2	84
76	Pd/SrFe_{1â€“<i>x</i>}Ti_{<i>x</i>}O_{3âˆ’Î´} as Environmental Catalyst: Purification of Automotive Exhaust Gases. ACS Applied Materials & Interfaces, 2018, 10, 22182-22189.	8.0	13
77	A Theoretical Investigation on CO Oxidation by Singleâ€Atom Catalysts M₁/Î³â€Al₂O₃ (M=Pd, Fe, Co, and Ni). ChemCatChem, 2017, 9, 1222-1229.	3.7	76
78	Which is an Intermediate Species for Photocatalytic Conversion of CO₂ by H₂O as the Electron Donor: CO₂ Molecule, Carbonic Acid, Bicarbonate, or Carbonate Ions?. Journal of Physical Chemistry C, 2017, 121, 8711-8721.	3.1	54
79	Efficient photocatalytic carbon monoxide production from ammonia and carbon dioxide by the aid of artificial photosynthesis. Chemical Science, 2017, 8, 5797-5801.	7.4	9
80	Highly Active and Stable Ptâ€“Sn/SBA-15 Catalyst Prepared by Direct Reduction for Ethylbenzene Dehydrogenation: Effects of Sn Addition. Industrial & Engineering Chemistry Research, 2017, 56, 7160-7172.	3.7	28
81	Strong metal-support interaction between Pt and SiO₂ following high-temperature reduction: a catalytic interface for propane dehydrogenation. Chemical Communications, 2017, 53, 6937-6940.	4.1	61
82	Selective reduction of NO over Cu/Al2O3: Enhanced catalytic activity by infinitesimal loading of Rh on Cu/Al2O3. Molecular Catalysis, 2017, 442, 74-82.	2.0	23
83	Visible-Light Selective Photooxidation of Aromatic Hydrocarbons via Ligand-to-Metal Charge Transfer Transition on Nb₂O₅. Journal of Physical Chemistry C, 2017, 121, 22854-22861.	3.1	36
84	Drastic improvement in the photocatalytic activity of Ga₂O₃ modified with Mgâ€“Al layered double hydroxide for the conversion of CO₂ in water. Sustainable Energy and Fuels, 2017, 1, 1740-1747.	4.9	35
85	Thermally stable single atom Pt/m-Al2O3 for selective hydrogenation and CO oxidation. Nature Communications, 2017, 8, 16100.	12.8	545
86	Oxygen Storage Property and Chemical Stability of SrFe_{1â€“<i>x</i>}Ti_{<i>x</i>}O_{3âˆ’Î´} with Robust Perovskite Structure. Journal of Physical Chemistry C, 2017, 121, 19358-19364.	3.1	26
87	CO₂ capture, storage, and conversion using a praseodymium-modified Ga₂O₃ photocatalyst. Journal of Materials Chemistry A, 2017, 5, 19351-19357.	10.3	38
88	Enhanced oxygen-release/storage properties of Pd-loaded Sr₃Fe₂O_{7âˆ’Î´}. Physical Chemistry Chemical Physics, 2017, 19, 14107-14113.	2.8	27
89	Enhancement of CO Evolution by Modification of Ga₂O₃ with Rare-Earth Elements for the Photocatalytic Conversion of CO₂ by H₂O. Langmuir, 2017, 33, 13929-13935.	3.5	43
90	Sodium Cation Substitution in Sr₂KTa₅O₁₅ toward Enhancement of Photocatalytic Conversion of CO₂ Using H₂O as an Electron Donor. ACS Omega, 2017, 2, 8187-8197.	3.5	11

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91	Highly selective photocatalytic conversion of CO2 by water over Ag-loaded SrNb2O6 nanorods. Applied Catalysis B: Environmental, 2017, 218, 770-778.	20.2	86
92	Fabrication of well-shaped Sr2KTa5O15 nanorods with a tetragonal tungsten bronze structure by a flux method for artificial photosynthesis. Applied Catalysis B: Environmental, 2016, 199, 272-281.	20.2	34
93	Selective Catalytic Reduction of NO by NH₃ over Photocatalysts (Photoâ€SCR): Mechanistic Investigations and Developments. Chemical Record, 2016, 16, 2268-2277.	5.8	18
94	A ZnTa₂O₆ photocatalyst synthesized via solid state reaction for conversion of CO₂ into CO in water. Catalysis Science and Technology, 2016, 6, 4978-4985.	4.1	46
95	Rutile titanium dioxide prepared by hydrogen reduction of Degussa P25 for highly efficient photocatalytic hydrogen evolution. Catalysis Science and Technology, 2016, 6, 5693-5699.	4.1	58
96	Investigation of the electrochemical and photoelectrochemical properties of Niâ€“Al LDH photocatalysts. Physical Chemistry Chemical Physics, 2016, 18, 13811-13819.	2.8	36
97	Monolayer Tantalum Oxide on Mesoporous Silica Substrate. ChemistrySelect, 2016, 1, 3124-3131.	1.5	5
98	Promoter effect of Pd species on Mn oxide catalysts supported on rare-earth-iron mixed oxide. Catalysis Science and Technology, 2016, 6, 7868-7874.	4.1	13
99	Effect of Ti³⁺ Ions and Conduction Band Electrons on Photocatalytic and Photoelectrochemical Activity of Rutile Titania for Water Oxidation. Journal of Physical Chemistry C, 2016, 120, 6467-6474.	3.1	147
100	Tuning the selectivity toward CO evolution in the photocatalytic conversion of CO₂ with H₂O through the modification of Ag-loaded Ga₂O₃ with a ZnGa₂O₄ layer. Catalysis Science and Technology, 2016, 6, 1025-1032.	4.1	94
101	Photocatalytic Conversion of CO2 by H2O over Ag-Loaded SrO-Modified Ta2O5. Bulletin of the Chemical Society of Japan, 2015, 88, 431-437.	3.2	56
102	Solvothermal Synthesis of Ca2Nb2O7 Fine Particles and Their High Activity for Photocatalytic Water Splitting into H2 and O2 under UV Light Irradiation. Chemistry Letters, 2015, 44, 1001-1003.	1.3	14
103	Popping of Graphite Oxide: Application in Preparing Metal Nanoparticle Catalysts. Advanced Materials, 2015, 27, 4688-4694.	21.0	48
104	Highly efficient photocatalytic conversion of CO₂ into solid CO using H₂O as a reductant over Ag-modified ZnGa₂O₄. Journal of Materials Chemistry A, 2015, 3, 11313-11319.	10.3	103
105	Photocatalytic conversion of CO2 in an aqueous solution using various kinds of layered double hydroxides. Catalysis Today, 2015, 251, 140-144.	4.4	43
106	Effect of the chloride ion as a hole scavenger on the photocatalytic conversion of CO₂ in an aqueous solution over Niâ€“Al layered double hydroxides. Physical Chemistry Chemical Physics, 2015, 17, 17995-18003.	2.8	76
107	Oxygen storage capacity of Sr₃Fe₂O_{7âˆ'Î´} having high structural stability. Journal of Materials Chemistry A, 2015, 3, 13540-13545.	10.3	43
108	Local Structure and L1- and L3-Edge X-ray Absorption Near Edge Structure of Late Lanthanide Elements (Ho, Er, Yb) in Their Complex Oxides. Journal of Physical Chemistry C, 2015, 119, 8070-8077.	3.1	14

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109	Visible-light-assisted selective catalytic reduction of NO with NH₃ on porphyrin derivative-modified TiO₂ photocatalysts. Catalysis Science and Technology, 2015, 5, 556-561.	4.1	33
110	Photocatalytic conversion of CO2 in water over Ag-modified La2Ti2O7. Applied Catalysis B: Environmental, 2015, 163, 241-247.	20.2	133
111	(Invited) Photocatalytic Conversion of CO2 By H2o As an Electron Donor over Ag/ZnGa2O4/Ga2O3. ECS Meeting Abstracts, 2015, , .	0.0	0
112	A Series of NiM (M = Ru, Rh, and Pd) Bimetallic Catalysts for Effective Lignin Hydrogenolysis in Water. ACS Catalysis, 2014, 4, 1574-1583.	11.2	421
113	A Doping Technique that Suppresses Undesirable H₂ Evolution Derived from Overall Water Splitting in the Highly Selective Photocatalytic Conversion of CO₂ in and by Water. Chemistry - A European Journal, 2014, 20, 9906-9909.	3.3	119
114	Dehydrogenation of Propane over Silicaâ€Supported Platinumâ€"Tin Catalysts Prepared by Direct Reduction: Effects of Tin/Platinum Ratio and Reduction Temperature. ChemCatChem, 2014, 6, 2680-2691.	3.7	49
115	Local Structure and La L₁ and L₃-Edge XANES Spectra of Lanthanum Complex Oxides. Inorganic Chemistry, 2014, 53, 6048-6053.	4.0	44
116	Local Structure of Pr, Nd, and Sm Complex Oxides and Their X-ray Absorption Near Edge Structure Spectra. Journal of Physical Chemistry C, 2014, 118, 20881-20888.	3.1	15
117	Characterization of Cu Nanoparticles on TiO2 Photocatalysts Fabricated by Electroless Plating Method. Topics in Catalysis, 2014, 57, 975-983.	2.8	15
118	Ultrathin rhodium nanosheets. Nature Communications, 2014, 5, 3093.	12.8	428
119	Effect of reduction method on the activity of Ptâ€"Sn/SiO2 for dehydrogenation of propane. Catalysis Today, 2014, 232, 33-39.	4.4	52
120	Gold Nanoparticles Coated with Manganeseâ€"Porphyrin That Effectively Shorten the Longitudinal Relaxation Time of Water Molecules Depending on the Particle Size. Chemistry Letters, 2014, 43, 1901-1903.	1.3	4
121	Reaction Mechanism of Selective Photooxidation of Amines over Niobium Oxide: Visible-Light-Induced Electron Transfer between Adsorbed Amine and Nb2O5. Journal of Physical Chemistry C, 2013, 117, 442-450.	3.1	59
122	Effects of reaction temperature on the photocatalytic activity of photo-SCR of NO with NH3 over a TiO2 photocatalyst. Catalysis Science and Technology, 2013, 3, 1771.	4.1	45
123	Propane Metathesis by a Tandem Catalytic System: Dehydrogenation and Hydrogenation over PtSn/Al2O3, and Metathesis over Re2O7/Al2O3. Chemistry Letters, 2012, 41, 254-256.	1.3	1
124	In situ observation of the dynamic behavior of Cuâ€"Alâ€"Ox catalysts for water gas shift reaction during daily start-up and shut-down (DSS)-like operation. Catalysis Science and Technology, 2012, 2, 1685.	4.1	13
125	Rational Design of a Molecular Nanocatalystâ€Stabilizer that Enhances both Catalytic Activity and Nanoparticle Stability. ChemCatChem, 2012, 4, 1907-1910.	3.7	15
126	Photocatalytic Conversion of CO₂ in Water over Layered Double Hydroxides. Angewandte Chemie - International Edition, 2012, 51, 8008-8011.	13.8	291

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127	Reaction Mechanism of Selective Photooxidation of Hydrocarbons over Nb₂O₅. Journal of Physical Chemistry C, 2011, 115, 19320-19327.	3.1	46
128	Structural Analysis of Group V, VI, and VII Metal Compounds by XAFS. Journal of Physical Chemistry C, 2011, 115, 23653-23663.	3.1	36
129	Selective Amine Oxidation Using Nb₂O₅ Photocatalyst and O₂. ACS Catalysis, 2011, 1, 1150-1153.	11.2	258
130	Modification of Metal Nanoparticles with TiO₂ and Metalâˆ'Support Interaction in Photodeposition. ACS Catalysis, 2011, 1, 187-192.	11.2	88
131	A unique photo-activation mechanism by â€œin situ dopingâ€•for photo-assisted selective NO reduction with ammonia over TiO2 and photooxidation of alcohols over Nb2O5. Catalysis Science and Technology, 2011, 1, 541.	4.1	35
132	Photo-Induced Electron Transfer Between a Reactant Molecule and Semiconductor Photocatalyst: In Situ Doping. Catalysis Surveys From Asia, 2011, 15, 240-258.	2.6	12
133	Reaction Mechanism and the Role of Copper in the Photooxidation of Alcohol over Cu/Nb₂O₅. ChemPhysChem, 2011, 12, 2823-2830.	2.1	24
134	Synthesis and Catalytic Performance of Organicâ€"Inorganic Hybrid Mesoporous Material Having Basic Nanospace. Catalysis Letters, 2010, 140, 121-126.	2.6	6
135	Generation of BrÃ¸nsted Acid Over Alumina-Supported Niobia Calcined at High Temperatures. Topics in Catalysis, 2010, 53, 672-677.	2.8	14
136	Photocatalytic reduction of CO2 using H2 as reductant over ATaO3 photocatalysts (A = Li, Na, K). Applied Catalysis B: Environmental, 2010, 96, 565-568.	20.2	135
137	Adsorbed Species of CO₂ and H₂ on Ga₂O₃ for the Photocatalytic Reduction of CO₂. Journal of Physical Chemistry C, 2010, 114, 8892-8898.	3.1	181
138	Structural analysis of group V, VI, VII metal compounds by XAFS and DFT calculation. Journal of Physics: Conference Series, 2009, 190, 012073.	0.4	12
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