Kentaro K Teramura

List of Publications by Year in Descending Order

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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.

209 papers	11,370 citations	50 h-index	101 g-index
228 ext. papers	12,383 ext. citations	6.5 avg, IF	6.25 L-index

#	Paper	IF	Citations
209	Oxygen Storage Capacity of Co-Doped SrTiO3 with High Redox Performance. *Journal of Physical Chemistry C*, **2022**, 126, 4415-4422	3.8	2
208	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	3.8	1
207	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	
206	Oxygen Release and Storage Property of Fe-Al Spinel Compounds: A Three-Way Catalytic Reaction over a Supported Rh Catalyst. *ACS Applied Materials & Interfaces*, **2021**, 13, 24615-24623	9.5	2
205	Local Structure and L- and L-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	5.1	2
204	Strong Metal□Support Interaction in Pd/Ca2AlMnO5+□Catalytic NO Reduction over Mn-Doped CaO Shell. *ACS Catalysis*, **2021**, 11, 7996-8003	13.1	2
203	NO Storage Performance at Low Temperature over Platinum Group Metal-Free SrTiO-Based Material. *ACS Applied Materials & Interfaces*, **2021**,	9.5	4
202	Zn-based metal□rganic frameworks as sacrificial agents for the synthesis of Zn/ZSM-5 catalysts and their applications in the aromatization of methanol. *Catalysis Today*, **2021**, 375, 70-78	5.3	4
201	A theoretical investigation into the role of catalyst support and regioselectivity of molecular adsorption on a metal oxide surface: NO reduction on Cu/□alumina. *Physical Chemistry Chemical Physics*, **2021**, 23, 2575-2585	3.6	1
200	Real-time observation of the effect of oxygen storage materials on Pd-based three-way catalysts under ideal automobile exhaust conditions: an operando study. *Catalysis Science and Technology*, **2021**, 11, 6182-6190	5.5	1
199	Dual Ag/Co cocatalyst synergism for the highly effective photocatalytic conversion of CO by HO over Al-SrTiO. *Chemical Science*, **2021**, 12, 4940-4948	9.4	11
198	Highly Selective Photocatalytic Conversion of Carbon Dioxide by Water over Al-SrTiO3 Photocatalyst Modified with Silver□Metal Dual Cocatalysts. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 9327-9335	8.3	7
197	Development of Zinc Hydroxide as an Abundant and Universal Cocatalyst for the Selective Photocatalytic Conversion of CO2 by H2O. *ChemCatChem*, **2021**, 13, 4313	5.2	1
196	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	21.8	2
195	Self-Regeneration Process of Ni-Cu Alloy Catalysts during a Three-Way Catalytic Reaction-An Study. *ACS Applied Materials & Interfaces*, **2020**, 12, 55994-56003	9.5	2
194	Identification of Active Ba Species on TiO2 Photocatalyst for NOx Trapping. *Chemistry Letters*, **2020** , 49, 859-862	1.7	1
193	Excellent Catalytic Activity of a Pd-Promoted MnOx Catalyst for Purifying Automotive Exhaust Gases. *ChemCatChem*, **2020**, 12, 4276-4280	5.2	9

192	Photocatalytic conversion of CO2 by H2O over heterogeneous photocatalysts **2020**, 179-190		1
191	Imparting CO reduction selectivity to ZnGaO photocatalysts by crystallization from hetero nano assembly of amorphous-like metal hydroxides.. *RSC Advances*, **2020**, 10, 8066-8073	3.7	6
190	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	6.1	3
189	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	5.3	4
188	Dynamics of the Lattice Oxygen in a Ruddlesden□Popper-type Sr3Fe2O7□□Catalyst during NO Oxidation. *ACS Catalysis*, **2020**, 10, 2528-2537	13.1	9
187	Effective Driving of Ag-Loaded and Al-Doped SrTiO3 under Irradiation at □ 300 nm for the Photocatalytic Conversion of CO2 by H2O. *ACS Applied Energy Materials*, **2020**, 3, 1468-1475	6.1	29
186	Enhanced CO evolution for photocatalytic conversion of CO2 by H2O over Ca modified Ga2O3. *Communications Chemistry*, **2020**, 3,	6.3	9
185	Optimized Synthesis of Ag-Modified Al-Doped SrTiO3 Photocatalyst for the Conversion of CO2 Using H2O as an Electron Donor. *ChemistrySelect*, **2020**, 5, 8779-8786	1.8	9
184	Fe-Modified CuNi Alloy Catalyst as a Nonprecious Metal Catalyst for Three-Way Catalysis. *Industrial & Engineering Chemistry Research*, **2020**, 59, 19907-19917	3.9	7
183	Ni□Pt Alloy Nanoparticles with Isolated Pt Atoms and Their Cooperative Neighboring Ni Atoms for Selective Hydrogenation of CO2 Toward CH4 Evolution: In Situ and Transient Fourier Transform Infrared Studies. *ACS Applied Nano Materials*, **2020**, 3, 9633-9644	5.6	9
182	Low-temperature NO oxidation using lattice oxygen in Fe-site substituted SrFeO. *Physical Chemistry Chemical Physics*, **2020**, 22, 24181-24190	3.6	6
181	Important Role of Strontium Atom on the Surface of SrKTaO with a Tetragonal Tungsten Bronze Structure to Improve Adsorption of CO for Photocatalytic Conversion of CO by HO. *ACS Applied Materials & Interfaces*, **2019**, 11, 37875-37884	9.5	6
180	Efficient oxygen storage property of Sr□e mixed oxide as automotive catalyst support. *Journal of Materials Chemistry A*, **2019**, 7, 1013-1021	13	7
179	The importance of direct reduction in the synthesis of highly active Pt□n/SBA-15 for n-butane dehydrogenation. *Catalysis Science and Technology*, **2019**, 9, 947-956	5.5	12
178	Effect of Cr Species on Photocatalytic Stability during the Conversion of CO2 by H2O. *Journal of Physical Chemistry C*, **2019**, 123, 2894-2899	3.8	4
177	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	6.1	9
176	Self-regeneration of a Ni-Cu alloy catalyst during a three-way catalytic reaction. *Physical Chemistry Chemical Physics*, **2019**, 21, 18816-18822	3.6	10
175	Local Structure Study of Lanthanide Elements by X-Ray Absorption Near Edge Structure Spectroscopy. *Chemical Record*, **2019**, 19, 1420-1431	6.6	3

174	Low-temperature NO trapping on alkali or alkaline earth metal modified TiO2 photocatalyst. *Catalysis Today*, **2019**, 332, 76-82	5.3	8
173	CO and C3H6 oxidation over platinum-group metal (PGM) catalysts supported on Mn-modified hexagonal YbFeO3. *Catalysis Today*, **2019**, 332, 183-188	5.3	7
172	Isolated Platinum Atoms in Ni/Al2O3 for Selective Hydrogenation of CO2 toward CH4. *Journal of Physical Chemistry C*, **2019**, 123, 23446-23454	3.8	18
171	Sublimation-Induced Sulfur Vacancies in MoS2 Catalyst for One-Pot Synthesis of Secondary Amines. *ACS Catalysis*, **2019**, 9, 7967-7975	13.1	29
170	NO Oxidation and Storage Properties of a Ruddlesden-Popper-Type SrFeO-Layered Perovskite Catalyst. *ACS Applied Materials & Interfaces*, **2019**, 11, 26985-26993	9.5	13
169	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	2.5	2
168	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	8.3	15
167	Necessary and sufficient conditions for the successful three-phase photocatalytic reduction of CO by HO over heterogeneous photocatalysts. *Physical Chemistry Chemical Physics*, **2018**, 20, 8423-8431	3.6	31
166	A nanoLDH catalyst with high CO2 adsorption capability for photo-catalytic reduction. *Journal of Materials Chemistry A*, **2018**, 6, 9684-9690	13	27
165	Striking Oxygen-Release/Storage Properties of Fe-Site-Substituted Sr3Fe2O7 *Journal of Physical Chemistry C*, **2018**, 122, 11186-11193	3.8	13
164	Recent progress in photocatalytic conversion of carbon dioxide over gallium oxide and its nanocomposites. *Current Opinion in Chemical Engineering*, **2018**, 20, 114-121	5.4	11
163	Flux method fabrication of potassium rare-earth tantalates for CO2 photoreduction using H2O as an electron donor. *Catalysis Today*, **2018**, 300, 173-182	5.3	18
162	Elucidating strong metal-support interactions in Pt Sn/SiO2 catalyst and its consequences for dehydrogenation of lower alkanes. *Journal of Catalysis*, **2018**, 365, 277-291	7.3	52
161	Pd/SrFeTi O as Environmental Catalyst: Purification of Automotive Exhaust Gases. *ACS Applied Materials & Interfaces*, **2018**, 10, 22182-22189	9.5	8
160	Role of lattice oxygen and oxygen vacancy sites in platinum group metal catalysts supported on Sr3Fe2O7 for NO-selective reduction. *Catalysis Science and Technology*, **2018**, 8, 147-153	5.5	21
159	Dynamic Behavior of Rh Species in Rh/AlO Model Catalyst during Three-Way Catalytic Reaction: An Operando X-ray Absorption Spectroscopy Study. *Journal of the American Chemical Society*, **2018**, 140, 176-184	16.4	29
158	Modification of GaO by an Ag-Cr core-shell cocatalyst enhances photocatalytic CO evolution for the conversion of CO by HO. *Chemical Communications*, **2018**, 54, 1053-1056	5.8	35
157	A feasibility study of ange-extended EXAFS measurement at the Pt L3-edge of Pt/Al2O3 in the presence of Au2O3. *Journal of Analytical Atomic Spectrometry*, **2018**, 33, 84-89	3.7	9

156	Regioselectivity of H2 Adsorption on Ga2O3 Surface Based on Vibronic Coupling Density Analysis. *Journal of Computer Chemistry Japan*, **2018**, 17, 138-141	0.2	1
155	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	3.8	11
154	Photocatalytic Conversion of Carbon Dioxide over A2BTa5O15 (A = Sr, Ba; B = K, Na) Using Ammonia as an Efficient Sacrificial Reagent. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 8247-8255	8.3	7
153	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	3.8	43
152	Efficient photocatalytic carbon monoxide production from ammonia and carbon dioxide by the aid of artificial photosynthesis. *Chemical Science*, **2017**, 8, 5797-5801	9.4	6
151	Highly Active and Stable Pt–Sn/SBA-15 Catalyst Prepared by Direct Reduction for Ethylbenzene Dehydrogenation: Effects of Sn Addition. *Industrial & Engineering Chemistry Research*, **2017**, 56, 7160-7172	3.9	19
150	Strong metal-support interaction between Pt and SiO following high-temperature reduction: a catalytic interface for propane dehydrogenation. *Chemical Communications*, **2017**, 53, 6937-6940	5.8	37
149	Selective reduction of NO over Cu/Al2O3: Enhanced catalytic activity by infinitesimal loading of Rh on Cu/Al2O3. *Molecular Catalysis*, **2017**, 442, 74-82	3.3	18
148	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	3.8	25
147	Drastic improvement in the photocatalytic activity of Ga2O3 modified with Mg–Al layered double hydroxide for the conversion of CO2 in water. *Sustainable Energy and Fuels*, **2017**, 1, 1740-1747	5.8	27
146	Oxygen Storage Property and Chemical Stability of SrFe1−xTixO3−δ with Robust Perovskite Structure. *Journal of Physical Chemistry C*, **2017**, 121, 19358-19364	3.8	22
145	CO2 capture, storage, and conversion using a praseodymium-modified Ga2O3 photocatalyst. *Journal of Materials Chemistry A*, **2017**, 5, 19351-19357	13	25
144	Enhanced oxygen-release/storage properties of Pd-loaded SrFeO. *Physical Chemistry Chemical Physics*, **2017**, 19, 14107-14113	3.6	20
143	Enhancement of CO Evolution by Modification of GaO with Rare-Earth Elements for the Photocatalytic Conversion of CO by HO. *Langmuir*, **2017**, 33, 13929-13935	4	32
142	Sodium Cation Substitution in SrKTaO toward Enhancement of Photocatalytic Conversion of CO Using HO as an Electron Donor. *ACS Omega*, **2017**, 2, 8187-8197	3.9	7
141	Highly selective photocatalytic conversion of CO2 by water over Ag-loaded SrNb2O6 nanorods. *Applied Catalysis B: Environmental*, **2017**, 218, 770-778	21.8	65
140	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	5.5	73
139	Surface Ba species effective for photoassisted NOx storage over Ba-modified TiO2 photocatalysts. *Applied Catalysis B: Environmental*, **2016**, 180, 283-290	21.8	15

138	Promoter effect of Pd species on Mn oxide catalysts supported on rare-earth-iron mixed oxide. *Catalysis Science and Technology*, **2016**, 6, 7868-7874	5.5	12
137	Rh nanoparticles with NiOx surface decoration for selective hydrogenolysis of CO bond over arene hydrogenation. *Journal of Molecular Catalysis A*, **2016**, 422, 188-197		34
136	Photocatalytic conversion of CO2 in water using fluorinated layered double hydroxides as photocatalysts. *Applied Catalysis A: General*, **2016**, 521, 160-167	5.1	22
135	Synthesis of niobium oxide nanoparticles with plate morphology utilizing solvothermal reaction and their performances for selective photooxidation. *Applied Catalysis B: Environmental*, **2016**, 182, 469-475	21.8	18
134	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	21.8	28
133	Selective Catalytic Reduction of NO by NH over Photocatalysts (Photo-SCR): Mechanistic Investigations and Developments. *Chemical Record*, **2016**, 16, 2268-2277	6.6	15
132	A ZnTa2O6 photocatalyst synthesized via solid state reaction for conversion of CO2 into CO in water. *Catalysis Science and Technology*, **2016**, 6, 4978-4985	5.5	34
131	Preparation of transition metal-containing layered double hydroxides and application to the photocatalytic conversion of CO2 in water. *Journal of CO2 Utilization*, **2016**, 15, 6-14	7.6	29
130	Investigation of the electrochemical and photoelectrochemical properties of Ni-Al LDH photocatalysts. *Physical Chemistry Chemical Physics*, **2016**, 18, 13811-9	3.6	24
129	Application of Layered Double Hydroxides (LDHs) in Photocatalysis. *Nanostructure Science and Technology*, **2016**, 313-323	0.9	1
128	Monolayer Tantalum Oxide on Mesoporous Silica Substrate. *ChemistrySelect*, **2016**, 1, 3124-3131	1.8	4
127	The support effect on the size and catalytic activity of thiolated Au nanoclusters as precatalysts. *Nanoscale*, **2015**, 7, 6325-33	7.7	122
126	Effect of the chloride ion as a hole scavenger on the photocatalytic conversion of CO2 in an aqueous solution over Ni-Al layered double hydroxides. *Physical Chemistry Chemical Physics*, **2015**, 17, 17995-8003	3.6	60
125	Oxygen storage capacity of Sr3Fe2O7 having high structural stability. *Journal of Materials Chemistry A*, **2015**, 3, 13540-13545	13	33
124	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	3.8	10
123	Noble-Metal-Free NOx Storage over Ba-Modified TiO2 Photocatalysts under UV-Light Irradiation at Low Temperatures. *ACS Catalysis*, **2015**, 5, 2939-2943	13.1	14
122	Visible-light-assisted selective catalytic reduction of NO with NH3 on porphyrin derivative-modified TiO2 photocatalysts. *Catalysis Science and Technology*, **2015**, 5, 556-561	5.5	26
121	Photocatalytic conversion of CO2 in water over Ag-modified La2Ti2O7. *Applied Catalysis B: Environmental*, **2015**, 163, 241-247	21.8	102

120	Photocatalytic Conversion of CO2 by H2O over Ag-Loaded SrO-Modified Ta2O5. *Bulletin of the Chemical Society of Japan*, **2015**, 88, 431-437	5.1	45
119	Visible-Light-Assisted Selective Catalytic Reduction of Nitric Oxide with Ammonia over Dye-Modified Titania Photocatalysts. *ChemCatChem*, **2015**, 7, 1818-1825	5.2	19
118	Popping of graphite oxide: application in preparing metal nanoparticle catalysts. *Advanced Materials*, **2015**, 27, 4688-94	24	43
117	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	13	81
116	Effects of SO on selective catalytic reduction of NO with NH over a TiO photocatalyst. *Science and Technology of Advanced Materials*, **2015**, 16, 024901	7.1	19
115	A theoretical approach to La L(1)-edge XANES spectra of La complex oxides and their local configuration. *Journal of Chemical Physics*, **2015**, 142, 164507	3.9	4
114	Visible-Light-Assisted Selective Catalytic Reduction of Nitric Oxide with Ammonia over Dye-Modified Titania Photocatalysts. *ChemCatChem*, **2015**, 7, 1723-1723	5.2	1
113	Photocatalytic conversion of CO2 in an aqueous solution using various kinds of layered double hydroxides. *Catalysis Today*, **2015**, 251, 140-144	5.3	34
112	Effect of a crystalline phase of TiO2 photocatalysts on the photodeposition of Rh metal nanoparticles. *Catalysis Today*, **2014**, 232, 165-170	5.3	4
111	A Series of NiM (M = Ru, Rh, and Pd) Bimetallic Catalysts for Effective Lignin Hydrogenolysis in Water. *ACS Catalysis*, **2014**, 4, 1574-1583	13.1	351
110	Acid property of Nb 2 O 5 /Al 2 O 3 prepared by impregnation method by using niobium oxalate solution: Effect of pH on the structure and acid property. *Catalysis Today*, **2014**, 226, 97-102	5.3	8
109	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, 9906-9	4.8	94
108	Effect of High-Temperature Calcination on the Generation of Brønsted Acid Sites on WO3/Al2O3. *ChemCatChem*, **2014**, 6, 2011-2020	5.2	28
107	Correlation between preparation conditions and the photoluminescence properties of Sn2+ centers in ZnO–P2O5 glasses. *Journal of Materials Chemistry C*, **2014**, 2, 2137-2143	7.1	33
106	Dehydrogenation of Propane over Silica-Supported Platinum–Tin Catalysts Prepared by Direct Reduction: Effects of Tin/Platinum Ratio and Reduction Temperature. *ChemCatChem*, **2014**, 6, 2680-2691	5.2	40
105	Local structure and La L1 and L3-edge XANES spectra of lanthanum complex oxides. *Inorganic Chemistry*, **2014**, 53, 6048-53	5.1	34
104	Unique structural characteristics of tin hydroxide nanoparticles-embedded montmorillonite (Sn-Mont) demonstrating efficient acid catalysis for various organic reactions. *Microporous and Mesoporous Materials*, **2014**, 198, 129-138	5.3	31
103	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	3.8	11

102	Characterization of Cu Nanoparticles on TiO2 Photocatalysts Fabricated by Electroless Plating Method. *Topics in Catalysis*, **2014**, 57, 975-983	2.3	14
101	Selective aerobic oxidation of primary alcohols to aldehydes over Nb2O5 photocatalyst with visible light. *ChemPhysChem*, **2014**, 15, 2665-7	3.2	15
100	Effect of reduction method on the activity of Pt□Sn/SiO2 for dehydrogenation of propane. *Catalysis Today*, **2014**, 232, 33-39	5.3	43
99	Inhibition of ammonia poisoning by addition of platinum to Ru/□Al2 O3 for preferential CO oxidation in fuel cells. *ChemSusChem*, **2014**, 7, 3264-7	8.3	0
98	Photoactivation of Molecular Oxygen by an Iron(III) Porphyrin with a Magnesium Aluminum Layered Double Hydroxide for the Aerobic Epoxidation of Cyclohexene. *ChemCatChem*, **2014**, 6, 2276-2281	5.2	7
97	The effects of preparation conditions for a BaNbO2 N photocatalyst on its physical properties. *ChemSusChem*, **2014**, 7, 2016-21	8.3	35
96	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	3.8	52
95	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	5.5	36
94	Br□sted acid generation of alumina-supported molybdenum oxide calcined at high temperatures: Characterization by acid-catalyzed reactions and spectroscopic methods. *Journal of Molecular Catalysis A*, **2013**, 371, 21-28		32
93	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
92	Characterization of thermally stable Br□sted acid sites on alumina-supported niobium oxide after calcination at high temperatures. *ChemPhysChem*, **2013**, 14, 2560-9	3.2	9
91	Narrow energy gap between triplet and singlet excited states of Sn2+ in borate glass. *Scientific Reports*, **2013**, 3, 3541	4.9	43
90	In situ observation of the dynamic behavior of Cu□Al□Ox catalysts for water gas shift reaction during daily start-up and shut-down (DSS)-like operation. *Catalysis Science and Technology*, **2012**, 2, 1685	5.5	12
89	Rational Design of a Molecular Nanocatalyst-Stabilizer that Enhances both Catalytic Activity and Nanoparticle Stability. *ChemCatChem*, **2012**, 4, 1907-1910	5.2	15
88	Generation of Br□sted acid sites on Al2O3-supported Ta2O5 calcined at high temperatures. *Catalysis Today*, **2012**, 192, 189-196	5.3	11
87	A titanium-based oxysulfide photocatalyst: La5Ti2MS5O7 (M = Ag, Cu) for water reduction and oxidation. *Physical Chemistry Chemical Physics*, **2012**, 14, 15475-81	3.6	51
86	In situ time-resolved DXAFS study of Rh nanoparticle formation mechanism in ethylene glycol at elevated temperature. *Physical Chemistry Chemical Physics*, **2012**, 14, 2983-90	3.6	18
85	Correlation between the Oxidation State of Copper and the Photocatalytic Activity of Cu/Nb2O5. *Journal of Physical Chemistry C*, **2012**, 116, 12181-12186	3.8	12

84	Hydrogenation of lower alkenes and conjugated diene catalyzed by Ga2O3. *Chemical Physics Letters*, **2012**, 539-540, 79-82	2.5	3
83	Photocatalytic Oxidation of Alcohols over TiO2 Covered with Nb2O5. *ACS Catalysis*, **2012**, 2, 175-179	13.1	118
82	Brønsted Acid Property of Alumina-Supported Niobium Oxide Calcined at High Temperatures: Characterization by Acid-Catalyzed Reactions and Spectroscopic Methods. *Journal of Physical Chemistry C*, **2012**, 116, 11615-11625	3.8	30
81	Insights into the Formation Mechanism of Rhodium Nanocubes. *Journal of Physical Chemistry C*, **2012**, 116, 15076-15086	3.8	37
80	Incarceration of (PdO)n and Pdn Clusters by Cage-Templated Synthesis of Hollow Silica Nanoparticles. *Angewandte Chemie*, **2012**, 124, 5995-5998	3.6	11
79	Photocatalytic Conversion of CO2 in Water over Layered Double Hydroxides. *Angewandte Chemie*, **2012**, 124, 8132-8135	3.6	61
78	Incarceration of (PdO)n and Pd(n) clusters by cage-templated synthesis of hollow silica nanoparticles. *Angewandte Chemie - International Edition*, **2012**, 51, 5893-6	16.4	40
77	Photocatalytic conversion of CO2 in water over layered double hydroxides. *Angewandte Chemie - International Edition*, **2012**, 51, 8008-11	16.4	249
76	Formation mechanism of metal nanoparticles studied by XAFS spectroscopy and effective synthesis of small metal nanoparticles. *Catalysis Today*, **2012**, 183, 108-118	5.3	27
75	Role of CO2 in dehydrogenation of propane over Cr-based catalysts. *Catalysis Today*, **2012**, 185, 151-156	5.3	78
74	Selective Amine Oxidation Using Nb2O5 Photocatalyst and O2. *ACS Catalysis*, **2011**, 1, 1150-1153	13.1	213
73	Modification of Metal Nanoparticles with TiO2 and Metal–Support Interaction in Photodeposition. *ACS Catalysis*, **2011**, 1, 187-192	13.1	64
72	A unique photo-activation mechanism by 'in situ doping' for photo-assisted selective NO reduction with ammonia over TiO2 and photooxidation of alcohols over Nb2O5. *Catalysis Science and Technology*, **2011**, 1, 541	5.5	33
71	'Back-bonding of iron(II) complexes supported by tris(pyrid-2-ylmethyl)amine and its nitro-substituted derivatives. *Journal of Physical Chemistry A*, **2011**, 115, 13589-95	2.8	3
70	Generation of Brønsted Acid Sites on Alumina-supported Tantalum(V) Oxide Calcined at 1223 K. *Chemistry Letters*, **2011**, 40, 1332-1334	1.7	7
69	Solvent-free aerobic alcohol oxidation using Cu/Nb2O5: Green and highly selective photocatalytic system. *Applied Catalysis B: Environmental*, **2011**, 110, 216-220	21.8	49
68	Photo-Induced Electron Transfer Between a Reactant Molecule and Semiconductor Photocatalyst: In Situ Doping. *Catalysis Surveys From Asia*, **2011**, 15, 240-258	2.8	12
67	In situ observation of nucleation and growth process of gold nanoparticles by quick XAFS spectroscopy. *ChemPhysChem*, **2011**, 12, 127-31	3.2	43

66	Reaction mechanism and the role of copper in the photooxidation of alcohol over Cu/Nb2O5. *ChemPhysChem*, **2011**, 12, 2823-30	3.2	21
65	An in situ quick XAFS spectroscopy study on the formation mechanism of small gold nanoparticles supported by porphyrin-cored tetradentate passivants. *Physical Chemistry Chemical Physics*, **2011**, 13, 11128-35	3.6	22
64	Reaction Mechanism of Selective Photooxidation of Hydrocarbons over Nb2O5. *Journal of Physical Chemistry C*, **2011**, 115, 19320-19327	3.8	38
63	Structural Analysis of Group V, VI, and VII Metal Compounds by XAFS. *Journal of Physical Chemistry C*, **2011**, 115, 23653-23663	3.8	35
62	In Situ Au L3 and L2 edge XANES spectral analysis during growth of thiol protected gold nanoparticles for the study on particle size dependent electronic properties. *Chemical Physics Letters*, **2011**, 507, 105-110	2.5	21
61	Remarkable improvement of the photocatalytic activity of Ga2O3 towards the overall splitting of H2O. *ChemSusChem*, **2011**, 4, 181-4	8.3	72
60	Adsorbed Species of CO2 and H2 on Ga2O3 for the Photocatalytic Reduction of CO2. *Journal of Physical Chemistry C*, **2010**, 114, 8892-8898	3.8	155
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