

Kentaro K Teramura

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12,383
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avg, IF

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L-index

#	Paper	IF	Citations
209	Photocatalyst releasing hydrogen from water. <i>Nature</i> , 2006 , 440, 295	50.4	2395
208	Noble-metal/Cr(2)O(3) core/shell nanoparticles as a cocatalyst for photocatalytic overall water splitting. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 7806-9	16.4	468
207	Overall water splitting on (Ga(1-x)Zn(x))(N(1-x)O(x)) solid solution photocatalyst: relationship between physical properties and photocatalytic activity. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 20504-10	24.0	360
206	A Series of NiM (M = Ru, Rh, and Pd) Bimetallic Catalysts for Effective Lignin Hydrogenolysis in Water. <i>ACS Catalysis</i> , 2014 , 4, 1574-1583	13.1	351
205	Photocatalytic conversion of CO2 in water over layered double hydroxides. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 8008-11	16.4	249
204	Zinc Germanium Oxynitride as a Photocatalyst for Overall Water Splitting under Visible Light. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 1042-1048	3.8	239
203	Selective Amine Oxidation Using Nb2O5 Photocatalyst and O2. <i>ACS Catalysis</i> , 2011 , 1, 1150-1153	13.1	213
202	Photocatalytic Reduction of CO2 to CO in the Presence of H2 or CH4 as a Reductant over MgO. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 346-354	3.4	212
201	Roles of Rh/Cr2O3 (Core/Shell) Nanoparticles Photodeposited on Visible-Light-Responsive (Ga1-xZnx)(N1-xOx) Solid Solutions in Photocatalytic Overall Water Splitting. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 7554-7560	3.8	200
200	Efficient overall water splitting under visible-light irradiation on (Ga(1-x)Zn(x))(N(1-x)O(x)) dispersed with Rh-Cr mixed-oxide nanoparticles: Effect of reaction conditions on photocatalytic activity. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 13107-12	3.4	196
199	Improvement of photocatalytic activity of (Ga1-xZnx)(N1-xOx) solid solution for overall water splitting by co-loading Cr and another transition metal. <i>Journal of Catalysis</i> , 2006 , 243, 303-308	7.3	188
198	Two step water splitting into H2 and O2 under visible light by ATaO2N (A=Ca, Sr, Ba) and WO3 with . <i>Chemical Physics Letters</i> , 2008 , 452, 120-123	2.5	174
197	Characterization of Rh-Cr mixed-oxide nanoparticles dispersed on (Ga(1-x)Zn(x))(N(1-x)O(x)) as a cocatalyst for visible-light-driven overall water splitting. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 13753-8	3.4	167
196	Noble-Metal/Cr2O3 Core/Shell Nanoparticles as a Cocatalyst for Photocatalytic Overall Water Splitting. <i>Angewandte Chemie</i> , 2006 , 118, 7970-7973	3.6	159
195	Adsorbed Species of CO2 and H2 on Ga2O3 for the Photocatalytic Reduction of CO2. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 8892-8898	3.8	155
194	The support effect on the size and catalytic activity of thiolated Au ^I nanoclusters as precatalysts. <i>Nanoscale</i> , 2015 , 7, 6325-33	7.7	122
193	Photocatalytic reduction of CO2 using H2 as reductant over ATaO3 photocatalysts (A = Li, Na, K). <i>Applied Catalysis B: Environmental</i> , 2010 , 96, 565-568	21.8	122

192	Effect of Metal Ion Addition in a Ni Supported Ga ₂ O ₃ Photocatalyst on the Photocatalytic Overall Splitting of H ₂ O. <i>Catalysis Letters</i> , 2008 , 125, 22-26	2.8	121
191	Photocatalytic Oxidation of Alcohols over TiO ₂ Covered with Nb ₂ O ₅ . <i>ACS Catalysis</i> , 2012 , 2, 175-179	13.1	118
190	Characterization of ruthenium oxide nanocluster as a cocatalyst with (Ga _{1-x} Zn _x)(N _{1-x} O _x) for photocatalytic overall water splitting. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 21915-21	3.4	108
189	Modification of (Zn _{1+x} Ge)(N ₂ O _x) Solid Solution as a Visible Light Driven Photocatalyst for Overall Water Splitting. <i>Chemistry of Materials</i> , 2007 , 19, 2120-2127	9.6	107
188	Photocatalytic conversion of CO ₂ in water over Ag-modified La ₂ Ti ₂ O ₇ . <i>Applied Catalysis B: Environmental</i> , 2015 , 163, 241-247	21.8	102
187	Effect of H ₂ gas as a reductant on photoreduction of CO ₂ over a Ga ₂ O ₃ photocatalyst. <i>Chemical Physics Letters</i> , 2008 , 467, 191-194	2.5	102
186	Studies on TiN _x O _y F _z as a Visible-Light-Responsive Photocatalyst. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 18264-18270	3.8	99
185	A doping technique that suppresses undesirable H ₂ evolution derived from overall water splitting in the highly selective photocatalytic conversion of CO ₂ in and by water. <i>Chemistry - A European Journal</i> , 2014 , 20, 9906-9	4.8	94
184	Photocatalytic Overall Water Splitting on Gallium Nitride Powder. <i>Bulletin of the Chemical Society of Japan</i> , 2007 , 80, 1004-1010	5.1	92
183	Highly dispersed noble-metal/chromia (core/shell) nanoparticles as efficient hydrogen evolution promoters for photocatalytic overall water splitting under visible light. <i>Nanoscale</i> , 2009 , 1, 106-9	7.7	90
182	Mechanism of Photooxidation of Alcohol over Nb ₂ O ₅ . <i>Journal of Physical Chemistry C</i> , 2009 , 113, 18713-18718	18.8	88
181	Highly efficient photocatalytic conversion of CO ₂ into solid CO using H ₂ O as a reductant over Ag-modified ZnGa ₂ O ₄ . <i>Journal of Materials Chemistry A</i> , 2015 , 3, 11313-11319	13	81
180	Role of CO ₂ in dehydrogenation of propane over Cr-based catalysts. <i>Catalysis Today</i> , 2012 , 185, 151-156	5.3	78
179	Crystal structure and optical properties of (Ga _{1-x} Zn _x)(N _{1-x} O _x) oxynitride photocatalyst (x=0.13). <i>Chemical Physics Letters</i> , 2005 , 416, 225-228	2.5	78
178	Tuning the selectivity toward CO evolution in the photocatalytic conversion of CO ₂ with H ₂ O through the modification of Ag-loaded Ga ₂ O ₃ with a ZnGa ₂ O ₄ layer. <i>Catalysis Science and Technology</i> , 2016 , 6, 1025-1032	5.5	73
177	Remarkable improvement of the photocatalytic activity of Ga ₂ O ₃ towards the overall splitting of H ₂ O. <i>ChemSusChem</i> , 2011 , 4, 181-4	8.3	72
176	Preparation of (Ga _{1-x} Zn _x)(N _{1-x} O _x) solid-solution from ZnGa ₂ O ₄ and ZnO as a photo-catalyst for overall water splitting under visible light. <i>Applied Catalysis A: General</i> , 2007 , 327, 114-121	5.1	70
175	Overall water splitting using (oxy)nitride photocatalysts. <i>Pure and Applied Chemistry</i> , 2006 , 78, 2267-2276	6.1	69

174	Highly selective photocatalytic conversion of CO ₂ by water over Ag-loaded SrNb ₂ O ₆ nanorods. <i>Applied Catalysis B: Environmental</i> , 2017 , 218, 770-778	21.8	65
173	Modification of Metal Nanoparticles with TiO ₂ and Metal-Support Interaction in Photodeposition. <i>ACS Catalysis</i> , 2011 , 1, 187-192	13.1	64
172	Preparation of Crystallized Mesoporous Ta ₃ N ₅ Assisted by Chemical Vapor Deposition of Tetramethyl Orthosilicate. <i>Chemistry of Materials</i> , 2010 , 22, 3854-3861	9.6	63
171	Photocatalytic Conversion of CO ₂ in Water over Layered Double Hydroxides. <i>Angewandte Chemie</i> , 2012 , 124, 8132-8135	3.6	61
170	Effect of the chloride ion as a hole scavenger on the photocatalytic conversion of CO ₂ in an aqueous solution over Ni-Al layered double hydroxides. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 17995-8003	3.6	60
169	Simultaneous photodeposition of rhodium-chromium nanoparticles on a semiconductor powder: structural characterization and application to photocatalytic overall water splitting. <i>Energy and Environmental Science</i> , 2010 , 3, 471-478	35.4	58
168	Bifunctionality of Rh ³⁺ Modifier on TiO ₂ and Working Mechanism of Rh ³⁺ /TiO ₂ Photocatalyst under Irradiation of Visible Light. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 11008-11016	3.8	57
167	Selective photo-oxidation of neat cyclohexane in the liquid phase over V ₂ O ₅ /Al ₂ O ₃ . <i>Journal of Molecular Catalysis A</i> , 2004 , 208, 299-305		56
166	Lanthanum-Iridium Oxysulfide as a Visible Light Driven Photocatalyst for Water Splitting. <i>Chemistry Letters</i> , 2007 , 36, 854-855	1.7	55
165	Photoassisted Selective Catalytic Reduction of NO with Ammonia in the Presence of Oxygen over TiO ₂ . <i>Langmuir</i> , 2003 , 19, 1209-1214	4	54
164	Elucidating strong metal-support interactions in Pt-Sn/SiO ₂ catalyst and its consequences for dehydrogenation of lower alkanes. <i>Journal of Catalysis</i> , 2018 , 365, 277-291	7.3	52
163	Reaction Mechanism of Selective Photooxidation of Amines over Niobium Oxide: Visible-Light-Induced Electron Transfer between Adsorbed Amine and Nb ₂ O ₅ . <i>Journal of Physical Chemistry C</i> , 2013 , 117, 442-450	3.8	52
162	TiO ₂ /SiO ₂ photocatalysts at low levels of loading: preparation, structure and photocatalysis. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2002 , 148, 277-281	4.7	52
161	A titanium-based oxysulfide photocatalyst: La ₅ Ti ₂ MS ₅ O ₇ (M = Ag, Cu) for water reduction and oxidation. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 15475-81	3.6	51
160	Photo-oxidation of cyclohexane over alumina-supported vanadium oxide catalyst. <i>Journal of Molecular Catalysis A</i> , 2001 , 165, 299-301		51
159	Solvent-free aerobic alcohol oxidation using Cu/Nb ₂ O ₅ : Green and highly selective photocatalytic system. <i>Applied Catalysis B: Environmental</i> , 2011 , 110, 216-220	21.8	49
158	Development of Cocatalysts for Photocatalytic Overall Water Splitting on (Ga _{1-x} Zn _x)(N _{1-x} O _x) Solid Solution. <i>Catalysis Surveys From Asia</i> , 2007 , 11, 145-157	2.8	48
157	Photocatalytic Conversion of CO ₂ by H ₂ O over Ag-Loaded SrO-Modified Ta ₂ O ₅ . <i>Bulletin of the Chemical Society of Japan</i> , 2015 , 88, 431-437	5.1	45

156	Visible Light Absorbed NH ₂ Species Derived from NH ₃ Adsorbed on TiO ₂ for Photoassisted Selective Catalytic Reduction. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 14189-14197	3.8	45
155	Which is an Intermediate Species for Photocatalytic Conversion of CO ₂ by H ₂ O as the Electron Donor: CO ₂ Molecule, Carbonic Acid, Bicarbonate, or Carbonate Ions?. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 8711-8721	3.8	43
154	Effect of reduction method on the activity of Pt _n /SiO ₂ for dehydrogenation of propane. <i>Catalysis Today</i> , 2014 , 232, 33-39	5.3	43
153	Popping of graphite oxide: application in preparing metal nanoparticle catalysts. <i>Advanced Materials</i> , 2015 , 27, 4688-94	24	43
152	Narrow energy gap between triplet and singlet excited states of Sn ²⁺ in borate glass. <i>Scientific Reports</i> , 2013 , 3, 3541	4.9	43
151	In situ observation of nucleation and growth process of gold nanoparticles by quick XAFS spectroscopy. <i>ChemPhysChem</i> , 2011 , 12, 127-31	3.2	43
150	One-phase synthesis of small gold nanoparticles coated by a horizontal porphyrin monolayer. <i>Chemical Communications</i> , 2008 , 6300-2	5.8	41
149	Promotion effect of tungsten oxide on photo-assisted selective catalytic reduction of NO with NH ₃ over TiO ₂ . <i>Applied Catalysis B: Environmental</i> , 2008 , 83, 123-130	21.8	41
148	Dehydrogenation of Propane over Silica-Supported Platinum _n Catalysts Prepared by Direct Reduction: Effects of Tin/Platinum Ratio and Reduction Temperature. <i>ChemCatChem</i> , 2014 , 6, 2680-2691	5.2	40
147	Incarceration of (PdO) _n and Pd(n) clusters by cage-templated synthesis of hollow silica nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 5893-6	16.4	40
146	Development of the efficient TiO ₂ photocatalyst in photoassisted selective catalytic reduction of NO with NH ₃ . <i>Catalysis Today</i> , 2006 , 111, 266-270	5.3	40
145	Dynamic in situ observation of automotive catalysts for emission control using X-ray absorption fine structure. <i>Catalysis Today</i> , 2009 , 145, 279-287	5.3	39
144	Reaction Mechanism of Selective Photooxidation of Hydrocarbons over Nb ₂ O ₅ . <i>Journal of Physical Chemistry C</i> , 2011 , 115, 19320-19327	3.8	38
143	Strong metal-support interaction between Pt and SiO following high-temperature reduction: a catalytic interface for propane dehydrogenation. <i>Chemical Communications</i> , 2017 , 53, 6937-6940	5.8	37
142	Insights into the Formation Mechanism of Rhodium Nanocubes. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 15076-15086	3.8	37
141	Effects of reaction temperature on the photocatalytic activity of photo-SCR of NO with NH ₃ over a TiO ₂ photocatalyst. <i>Catalysis Science and Technology</i> , 2013 , 3, 1771	5.5	36
140	The effects of preparation conditions for a BaNbO ₂ N photocatalyst on its physical properties. <i>ChemSusChem</i> , 2014 , 7, 2016-21	8.3	35
139	Structural Analysis of Group V, VI, and VII Metal Compounds by XAFS. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 23653-23663	3.8	35

138	Brønsted Acid Generation over Alumina-Supported Niobia by Calcination at 1173 K. <i>Catalysis Letters</i> , 2009 , 129, 383-386	2.8	35
137	In Situ Time-Resolved Energy-Dispersive XAFS Study on Photodeposition of Rh Particles on a TiO ₂ Photocatalyst. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 8495-8498	3.8	35
136	Modification of GaO by an Ag-Cr core-shell cocatalyst enhances photocatalytic CO evolution for the conversion of CO by HO. <i>Chemical Communications</i> , 2018 , 54, 1053-1056	5.8	35
135	Rh nanoparticles with NiO _x surface decoration for selective hydrogenolysis of CO bond over arene hydrogenation. <i>Journal of Molecular Catalysis A</i> , 2016 , 422, 188-197		34
134	Local structure and La L1 and L3-edge XANES spectra of lanthanum complex oxides. <i>Inorganic Chemistry</i> , 2014 , 53, 6048-53	5.1	34
133	Photocatalytic conversion of CO ₂ in an aqueous solution using various kinds of layered double hydroxides. <i>Catalysis Today</i> , 2015 , 251, 140-144	5.3	34
132	Selective photo-oxidation of various hydrocarbons in the liquid phase over VO/AlO. <i>Catalysis Today</i> , 2004 , 96, 205-209	5.3	34
131	A ZnTa ₂ O ₆ photocatalyst synthesized via solid state reaction for conversion of CO ₂ into CO in water. <i>Catalysis Science and Technology</i> , 2016 , 6, 4978-4985	5.5	34
130	Oxygen storage capacity of Sr ₃ Fe ₂ O ₇ having high structural stability. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 13540-13545	13	33
129	Correlation between preparation conditions and the photoluminescence properties of Sn ²⁺ centers in ZnO/B ₂ O ₅ glasses. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 2137-2143	7.1	33
128	A unique photo-activation mechanism by in situ doping for photo-assisted selective NO reduction with ammonia over TiO ₂ and photooxidation of alcohols over Nb ₂ O ₅ . <i>Catalysis Science and Technology</i> , 2011 , 1, 541	5.5	33
127	Photoassisted NO reduction with NH ₃ over TiO ₂ photocatalyst. <i>Chemical Communications</i> , 2002 , 2742-35.8		33
126	Brønsted acid generation of alumina-supported molybdenum oxide calcined at high temperatures: Characterization by acid-catalyzed reactions and spectroscopic methods. <i>Journal of Molecular Catalysis A</i> , 2013 , 371, 21-28		32
125	Enhancement of CO Evolution by Modification of GaO with Rare-Earth Elements for the Photocatalytic Conversion of CO by HO. <i>Langmuir</i> , 2017 , 33, 13929-13935	4	32
124	Necessary and sufficient conditions for the successful three-phase photocatalytic reduction of CO by HO over heterogeneous photocatalysts. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 8423-8431	3.6	31
123	Unique structural characteristics of tin hydroxide nanoparticles-embedded montmorillonite (Sn-Mont) demonstrating efficient acid catalysis for various organic reactions. <i>Microporous and Mesoporous Materials</i> , 2014 , 198, 129-138	5.3	31
122	NO Reduction with CO in the Presence of O ₂ over Cu/Al ₂ O ₃ (3) Structural Analysis of Active Species by Means of XAFS and UV/VIS/NIR Spectroscopy. <i>Topics in Catalysis</i> , 2002 , 18, 113-118	2.3	31
121	Brønsted Acid Property of Alumina-Supported Niobium Oxide Calcined at High Temperatures: Characterization by Acid-Catalyzed Reactions and Spectroscopic Methods. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 11615-11625	3.8	30

120	Direct deposition of nanoparticulate rhodium-chromium mixed-oxides on a semiconductor powder by band-gap irradiation. <i>Journal of Materials Chemistry</i> , 2008 , 18, 3539		30
119	Effective Driving of Ag-Loaded and Al-Doped SrTiO ₃ under Irradiation at λ = 300 nm for the Photocatalytic Conversion of CO ₂ by H ₂ O. <i>ACS Applied Energy Materials</i> , 2020 , 3, 1468-1475	6.1	29
118	Sublimation-Induced Sulfur Vacancies in MoS ₂ Catalyst for One-Pot Synthesis of Secondary Amines. <i>ACS Catalysis</i> , 2019 , 9, 7967-7975	13.1	29
117	Preparation of transition metal-containing layered double hydroxides and application to the photocatalytic conversion of CO ₂ in water. <i>Journal of CO₂ Utilization</i> , 2016 , 15, 6-14	7.6	29
116	Dynamic Behavior of Rh Species in Rh/AlO Model Catalyst during Three-Way Catalytic Reaction: An Operando X-ray Absorption Spectroscopy Study. <i>Journal of the American Chemical Society</i> , 2018 , 140, 176-184	16.4	29
115	Effect of High-Temperature Calcination on the Generation of Brønsted Acid Sites on WO ₃ /Al ₂ O ₃ . <i>ChemCatChem</i> , 2014 , 6, 2011-2020	5.2	28
114	Fabrication of well-shaped Sr ₂ KTa ₅ O ₁₅ nanorods with a tetragonal tungsten bronze structure by a flux method for artificial photosynthesis. <i>Applied Catalysis B: Environmental</i> , 2016 , 199, 272-281	21.8	28
113	A nanoLDH catalyst with high CO ₂ adsorption capability for photo-catalytic reduction. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 9684-9690	13	27
112	Drastic improvement in the photocatalytic activity of Ga ₂ O ₃ modified with Mg/Al layered double hydroxide for the conversion of CO ₂ in water. <i>Sustainable Energy and Fuels</i> , 2017 , 1, 1740-1747	5.8	27
111	Formation mechanism of metal nanoparticles studied by XAFS spectroscopy and effective synthesis of small metal nanoparticles. <i>Catalysis Today</i> , 2012 , 183, 108-118	5.3	27
110	Investigation of the formation process of photodeposited Rh nanoparticles on TiO ₂ by in situ time-resolved energy-dispersive XAFS analysis. <i>Langmuir</i> , 2010 , 26, 13907-12	4	27
109	Visible-light-assisted selective catalytic reduction of NO with NH ₃ on porphyrin derivative-modified TiO ₂ photocatalysts. <i>Catalysis Science and Technology</i> , 2015 , 5, 556-561	5.5	26
108	Visible-Light Selective Photooxidation of Aromatic Hydrocarbons via Ligand-to-Metal Charge Transfer Transition on Nb ₂ O ₅ . <i>Journal of Physical Chemistry C</i> , 2017 , 121, 22854-22861	3.8	25
107	CO ₂ capture, storage, and conversion using a praseodymium-modified Ga ₂ O ₃ photocatalyst. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 19351-19357	13	25
106	Novel catalytic behavior of Cu/Al ₂ O ₃ catalyst against daily start-up and shut-down (DSS)-like operation in the water gas shift reaction. <i>Applied Catalysis A: General</i> , 2010 , 387, 185-194	5.1	25
105	Zinc and Titanium Spinel Oxynitride (Zn _x TiO _y N _z) as a d ⁰ f ¹⁰ Complex Photocatalyst with Visible Light Activity. <i>Chemistry Letters</i> , 2007 , 36, 558-559	1.7	25
104	Crystal Structure Analysis of (Ga _{0.93} Zn _{0.07})(N _{0.90} O _{0.10}) Oxynitride Photocatalyst. <i>Materials Transactions</i> , 2006 , 47, 295-297	1.3	24
103	Investigation of the electrochemical and photoelectrochemical properties of Ni-Al LDH photocatalysts. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 13811-9	3.6	24

102	Photocatalytic conversion of CO ₂ in water using fluorinated layered double hydroxides as photocatalysts. <i>Applied Catalysis A: General</i> , 2016 , 521, 160-167	5.1	22
101	Oxygen Storage Property and Chemical Stability of SrFe _{1-x} Ti _x O ₃ with Robust Perovskite Structure. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 19358-19364	3.8	22
100	An in situ quick XAFS spectroscopy study on the formation mechanism of small gold nanoparticles supported by porphyrin-cored tetradentate passivants. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 11128-35	3.6	22
99	Reaction mechanism and the role of copper in the photooxidation of alcohol over Cu/Nb ₂ O ₅ . <i>ChemPhysChem</i> , 2011 , 12, 2823-30	3.2	21
98	In Situ Time-Resolved Energy-Dispersive XAFS Study on Reduction Behavior of Pt Supported on TiO ₂ and Al ₂ O ₃ . <i>Catalysis Letters</i> , 2009 , 131, 413-418	2.8	21
97	In Situ Au L ₃ and L ₂ edge XANES spectral analysis during growth of thiol protected gold nanoparticles for the study on particle size dependent electronic properties. <i>Chemical Physics Letters</i> , 2011 , 507, 105-110	2.5	21
96	Study of the Reaction Mechanism of Selective Photooxidation of Cyclohexane over V ₂ O ₅ /Al ₂ O ₃ . <i>Journal of Physical Chemistry C</i> , 2009 , 113, 17018-17024	3.8	21
95	Role of lattice oxygen and oxygen vacancy sites in platinum group metal catalysts supported on Sr ₃ Fe ₂ O ₇ for NO-selective reduction. <i>Catalysis Science and Technology</i> , 2018 , 8, 147-153	5.5	21
94	Enhanced oxygen-release/storage properties of Pd-loaded SrFeO. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 14107-14113	3.6	20
93	Highly Active and Stable Pt ₈ Sn/SBA-15 Catalyst Prepared by Direct Reduction for Ethylbenzene Dehydrogenation: Effects of Sn Addition. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 7160-7172 ¹⁹	3.9	19
92	Visible-Light-Assisted Selective Catalytic Reduction of Nitric Oxide with Ammonia over Dye-Modified Titania Photocatalysts. <i>ChemCatChem</i> , 2015 , 7, 1818-1825	5.2	19
91	Effects of SO on selective catalytic reduction of NO with NH ₃ over a TiO photocatalyst. <i>Science and Technology of Advanced Materials</i> , 2015 , 16, 024901	7.1	19
90	Photoactivation mechanism of orthovanadate-like (V=O) ₃ species. <i>Chemical Physics Letters</i> , 2008 , 460, 478-481	2.5	19
89	Selective reduction of NO over Cu/Al ₂ O ₃ : Enhanced catalytic activity by infinitesimal loading of Rh on Cu/Al ₂ O ₃ . <i>Molecular Catalysis</i> , 2017 , 442, 74-82	3.3	18
88	Flux method fabrication of potassium rare-earth tantalates for CO ₂ photoreduction using H ₂ O as an electron donor. <i>Catalysis Today</i> , 2018 , 300, 173-182	5.3	18
87	Synthesis of niobium oxide nanoparticles with plate morphology utilizing solvothermal reaction and their performances for selective photooxidation. <i>Applied Catalysis B: Environmental</i> , 2016 , 182, 469-475 ^{21,8}	21.8	18
86	Isolated Platinum Atoms in Ni/Al ₂ O ₃ for Selective Hydrogenation of CO ₂ toward CH ₄ . <i>Journal of Physical Chemistry C</i> , 2019 , 123, 23446-23454	3.8	18
85	In situ time-resolved DXAFS study of Rh nanoparticle formation mechanism in ethylene glycol at elevated temperature. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 2983-90	3.6	18

84	High sustainability of Cu ₂ O catalysts against daily start-up and shut-down (DSS)-like operation in the water-gas shift reaction. <i>Catalysis Communications</i> , 2009 , 10, 1057-1061	3.2	18
83	EPR Study of Photoinduced Electron Transfer between Adsorbent and Adsorbed Species in Photo-SCR with NH ₃ . <i>Chemistry Letters</i> , 2003 , 32, 1184-1185	1.7	17
82	Surface Ba species effective for photoassisted NO _x storage over Ba-modified TiO ₂ photocatalysts. <i>Applied Catalysis B: Environmental</i> , 2016 , 180, 283-290	21.8	15
81	Selective aerobic oxidation of primary alcohols to aldehydes over Nb ₂ O ₅ photocatalyst with visible light. <i>ChemPhysChem</i> , 2014 , 15, 2665-7	3.2	15
80	Rational Design of a Molecular Nanocatalyst-Stabilizer that Enhances both Catalytic Activity and Nanoparticle Stability. <i>ChemCatChem</i> , 2012 , 4, 1907-1910	5.2	15
79	Selective Catalytic Reduction of NO by NH ₃ over Photocatalysts (Photo-SCR): Mechanistic Investigations and Developments. <i>Chemical Record</i> , 2016 , 16, 2268-2277	6.6	15
78	Effect of Thickness of Chromium Hydroxide Layer on Ag Cocatalyst Surface for Highly Selective Photocatalytic Conversion of CO ₂ by H ₂ O. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 2083-2090	8.3	15
77	Noble-Metal-Free NO _x Storage over Ba-Modified TiO ₂ Photocatalysts under UV-Light Irradiation at Low Temperatures. <i>ACS Catalysis</i> , 2015 , 5, 2939-2943	13.1	14
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