

Tsunehiro Tanaka

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183
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194
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avg, IF

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L-index

#	Paper	IF	Citations
183	Thermally stable single atom Pt/m-AlO for selective hydrogenation and CO oxidation. <i>Nature Communications</i> , 2017 , 8, 16100	17.4	390
182	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
181	Ultrathin rhodium nanosheets. <i>Nature Communications</i> , 2014 , 5, 3093	17.4	350
180	Photocatalytic conversion of CO ₂ in water over layered double hydroxides. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 8008-11	16.4	249
179	Selective Amine Oxidation Using Nb ₂ O ₅ Photocatalyst and O ₂ . <i>ACS Catalysis</i> , 2011 , 1, 1150-1153	13.1	213
178	Photocatalytic Reduction of CO ₂ to CO in the Presence of H ₂ or CH ₄ as a Reductant over MgO. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 346-354	3.4	212
177	X-ray absorption (EXAFS/XANES) study of supported vanadium oxide catalysts. Structure of surface vanadium oxide species on silica and alumina at a low level of vanadium loading. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1988 , 84, 2987		199
176	Adsorbed Species of CO ₂ and H ₂ on Ga ₂ O ₃ for the Photocatalytic Reduction of CO ₂ . <i>Journal of Physical Chemistry C</i> , 2010 , 114, 8892-8898	3.8	155
175	XAFS Study of Tungsten L1- and L3-Edges: Structural Analysis of WO ₃ Species Loaded on TiO ₂ as a Catalyst for Photo-oxidation of NH ₃ . <i>Journal of Physical Chemistry C</i> , 2008 , 112, 6869-6879	3.8	132
174	Photocatalytic reduction of CO ₂ using H ₂ as reductant over ATaO ₃ photocatalysts (A = Li, Na, K). <i>Applied Catalysis B: Environmental</i> , 2010 , 96, 565-568	21.8	122
173	Effect of Ti ³⁺ Ions and Conduction Band Electrons on Photocatalytic and Photoelectrochemical Activity of Rutile Titania for Water Oxidation. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 6467-6474	3.8	114
172	In situ spectroscopy-guided engineering of rhodium single-atom catalysts for CO oxidation. <i>Nature Communications</i> , 2019 , 10, 1330	17.4	111
171	Photoreduction of CO ₂ with H ₂ over ZrO ₂ . A study on interaction of hydrogen with photoexcited CO ₂ . <i>Physical Chemistry Chemical Physics</i> , 2000 , 2, 2635-2639	3.6	108
170	Catalytic amino acid production from biomass-derived intermediates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 5093-5098	11.5	107
169	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
168	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
167	Deconvolution Analysis of Ga K-Edge XANES for Quantification of Gallium Coordinations in Oxide Environments. <i>Journal of Physical Chemistry B</i> , 1998 , 102, 10190-10195	3.4	100

166	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
165	Reaction mechanism in the photoreduction of CO ₂ with CH ₄ over ZrO ₂ . <i>Physical Chemistry Chemical Physics</i> , 2000 , 2, 5302-5307	3.6	90
164	Analysis of XANES for identification of highly dispersed transition metal oxides on supports. <i>Catalysis Letters</i> , 1992 , 12, 277-285	2.8	89
163	Mechanism of Photooxidation of Alcohol over Nb ₂ O ₅ . <i>Journal of Physical Chemistry C</i> , 2009 , 113, 18713-18718	3.8	88
162	Photoreduction of carbon dioxide by hydrogen over magnesium oxide. <i>Physical Chemistry Chemical Physics</i> , 2001 , 3, 1108-1113	3.6	88
161	Supported Tantalum Oxide Catalysts: Synthesis, Physical Characterization, and Methanol Oxidation Chemical Probe Reaction. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 5243-5250	3.4	86
160	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
159	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
158	Study on the Dispersion of Nickel Ions in the NiO/MgO System by X-ray Absorption Fine Structure. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 2302-2309		72
157	Identification and reactivity of a surface intermediate in the photoreduction of CO ₂ with H ₂ over ZrO ₂ . <i>Journal of the Chemical Society, Faraday Transactions</i> , 1998 , 94, 1875-1880		71
156	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
155	Metal-Dependent Support Effects of Oxyhydride-Supported Ru, Fe, Co Catalysts for Ammonia Synthesis. <i>Advanced Energy Materials</i> , 2018 , 8, 1801772	21.8	65
154	Modification of Metal Nanoparticles with TiO ₂ and Metal/Support Interaction in Photodeposition. <i>ACS Catalysis</i> , 2011 , 1, 187-192	13.1	64
153	One-electron reducibility of isolated copper oxide on alumina for selective NO _x reaction. <i>Applied Catalysis B: Environmental</i> , 2006 , 64, 282-289	21.8	64
152	A Theoretical Investigation on CO Oxidation by Single-Atom Catalysts M/EAIO (M=Pd, Fe, Co, and Ni). <i>ChemCatChem</i> , 2017 , 9, 1222-1229	5.2	63
151	Liquid phase photooxidation of alcohol over niobium oxide without solvents. <i>Catalysis Today</i> , 2007 , 120, 233-239	5.3	63
150	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
149	Structures and Acid/Base Properties of La/Al ₂ O ₃ Role of La Addition to Enhance Thermal Stability of Al ₂ O ₃ . <i>Chemistry of Materials</i> , 2003 , 15, 4830-4840	9.6	59

148	Preparation of Active Absorbent for Dry-Type Flue Gas Desulfurization from Calcium Oxide, Coal Fly Ash, and Gypsum. <i>Industrial & Engineering Chemistry Research</i> , 2000 , 39, 1390-1396	3.9	59
147	NO reduction with CO in the presence of O ₂ over Al ₂ O ₃ -supported and Cu-based catalysts. <i>Physical Chemistry Chemical Physics</i> , 2002 , 4, 2449-2458	3.6	57
146	Structures of Molybdenum Species in Silica-Supported Molybdenum Oxide and Alkali-Ion-Modified Silica-Supported Molybdenum Oxide. <i>Journal of Physical Chemistry B</i> , 1998 , 102, 2960-2969	3.4	56
145	Elucidating strong metal-support interactions in Pt δ n/SiO ₂ catalyst and its consequences for dehydrogenation of lower alkanes. <i>Journal of Catalysis</i> , 2018 , 365, 277-291	7.3	52
144	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
143	Zeolite-Encaged Pd-Mn Nanocatalysts for CO Hydrogenation and Formic Acid Dehydrogenation. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 20183-20191	16.4	52
142	XAFS study of zirconia-supported copper catalysts for the NO δ O reaction: Deactivation, rejuvenation and stabilization of Cu species. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1998 , 94, 3743-3752		47
141	Rutile titanium dioxide prepared by hydrogen reduction of Degussa P25 for highly efficient photocatalytic hydrogen evolution. <i>Catalysis Science and Technology</i> , 2016 , 6, 5693-5699	5.5	46
140	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
139	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
138	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
137	Effect of reduction method on the activity of Pt δ n/SiO ₂ for dehydrogenation of propane. <i>Catalysis Today</i> , 2014 , 232, 33-39	5.3	43
136	Popping of graphite oxide: application in preparing metal nanoparticle catalysts. <i>Advanced Materials</i> , 2015 , 27, 4688-94	24	43
135	Structure of Active Species in Alkali-Ion-Modified Silica-Supported Vanadium Oxide. <i>Journal of Physical Chemistry B</i> , 1997 , 101, 9035-9040	3.4	41
134	Dehydrogenation of Propane over Silica-Supported Platinum δ in Catalysts Prepared by Direct Reduction: Effects of Tin/Platinum Ratio and Reduction Temperature. <i>ChemCatChem</i> , 2014 , 6, 2680-2691	5.2	40
133	Alumina-Supported Rare-Earth Oxides Characterized by Acid-Catalyzed Reactions and Spectroscopic Methods. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 1908-1916	3.4	40
132	Structure of Mo δ Mg Binary Oxides in Oxidized/Reduced States Studied by X-ray Absorption Spectroscopy at the Mo K Edge and Mg K Edge. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 5440-5446		39
131	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

130	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
129	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
128	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
127	Brønsted Acid Generation over Alumina-Supported Niobia by Calcination at 1173 K. <i>Catalysis Letters</i> , 2009 , 129, 383-386	2.8	35
126	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
125	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
124	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
123	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
122	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
121	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
120	Photoassisted NO reduction with NH ₃ over TiO ₂ photocatalyst. <i>Chemical Communications</i> , 2002 , 2742-3	5.8	33
119	Physico-chemical and catalytic properties of ytterbium introduced into Y-zeolite. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1993 , 89, 3177		33
118	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
117	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
116	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
115	XAFS and XRD Analysis of Ceria-Zirconia Oxygen Storage Promoters for Automotive Catalysts. <i>Topics in Catalysis</i> , 2008 , 47, 137-147	2.3	30
114	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
113	Modification of photocatalytic center for photo-epoxidation of propylene by rubidium ion addition to V ₂ O ₅ /SiO ₂ . <i>Catalysis Communications</i> , 2005 , 6, 269-273	3.2	29

112	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
111	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
110	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
109	Drastic improvement in the photocatalytic activity of Ga ₂ O ₃ modified with MgAl layered double hydroxide for the conversion of CO ₂ in water. <i>Sustainable Energy and Fuels</i> , 2017 , 1, 1740-1747	5.8	27
108	Effect of Calcium Sulfate Addition on the Activity of the Absorbent for Dry Flue Gas Desulfurization. <i>Energy & Fuels</i> , 2001 , 15, 438-443	4.1	27
107	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
106	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
105	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
104	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
103	Size Controlled Synthesis of Gold Nanoparticles by Porphyrin with Four Sulfur Atoms. <i>Topics in Catalysis</i> , 2009 , 52, 852-859	2.3	23
102	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
101	Valence Variation of Yb Encapsulated in the Supercage of Y-Type Zeolite. <i>Japanese Journal of Applied Physics</i> , 1993 , 32, 481	1.4	22
100	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
99	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
98	xTunes: A new XAS processing tool for detailed and on-the-fly analysis. <i>Radiation Physics and Chemistry</i> , 2020 , 175, 108270	2.5	21
97	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
96	Enhanced oxygen-release/storage properties of Pd-loaded SrFeO. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 14107-14113	3.6	20
95	Highly Active and Stable Pt ₃ N/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

94	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
93	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
92	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
91	Structural analysis of tungsten-zirconium oxide catalyst by W K-edge and L1-edge XAFS. <i>X-Ray Spectrometry</i> , 2008 , 37, 226-231	0.9	18
90	X-Ray absorption spectroscopy (EXAFS/XANES) evidence for the preferential formation of isolated VO ₄ species on highly photoactive V ₂ O ₅ /SiO ₂ catalysts. <i>Journal of the Chemical Society Chemical Communications</i> , 1987 , 506		18
89	Deactivation Mechanism of Pd/CeO ₂ -ZrO ₂ Three-Way Catalysts Analyzed by Chassis-Dynamometer Tests and in Situ Diffuse Reflectance Spectroscopy. <i>ACS Catalysis</i> , 2019 , 9, 6415-6424	13.1	17
88	Metal oxide promoted TiO ₂ catalysts for photo-assisted selective catalytic reduction of NO with NH ₃ . <i>Research on Chemical Intermediates</i> , 2008 , 34, 487-494	2.8	17
87	Zeolite-Encaged Pd/Mn Nanocatalysts for CO ₂ Hydrogenation and Formic Acid Dehydrogenation. <i>Angewandte Chemie</i> , 2020 , 132, 20358-20366	3.6	16
86	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
85	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
84	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
83	Characterization of Cu Nanoparticles on TiO ₂ Photocatalysts Fabricated by Electroless Plating Method. <i>Topics in Catalysis</i> , 2014 , 57, 975-983	2.3	14
82	Control of Acid-Site Location of MFI Zeolite by Catalytic Cracking of Silane and Its Application to Olefin Synthesis from Acetone. <i>Journal of Chemical Engineering of Japan</i> , 2009 , 42, S162-S167	0.8	14
81	Generation of Brønsted Acid Over Alumina-Supported Niobia Calcined at High Temperatures. <i>Topics in Catalysis</i> , 2010 , 53, 672-677	2.3	14
80	Striking Oxygen-Release/Storage Properties of Fe-Site-Substituted Sr ₃ Fe ₂ O ₇ . <i>Journal of Physical Chemistry C</i> , 2018 , 122, 11186-11193	3.8	13
79	NO Oxidation and Storage Properties of a Ruddlesden-Popper-Type SrFeO-Layered Perovskite Catalyst. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 26985-26993	9.5	13
78	The importance of direct reduction in the synthesis of highly active Pt/Bn/SBA-15 for n-butane dehydrogenation. <i>Catalysis Science and Technology</i> , 2019 , 9, 947-956	5.5	12
77	Promoter effect of Pd species on Mn oxide catalysts supported on rare-earth-iron mixed oxide. <i>Catalysis Science and Technology</i> , 2016 , 6, 7868-7874	5.5	12

76	In situ observation of the dynamic behavior of Cu ₂ O catalysts for water gas shift reaction during daily start-up and shut-down (DSS)-like operation. <i>Catalysis Science and Technology</i> , 2012 , 2, 1685-1695	5.5	12
75	Photo-Induced Electron Transfer Between a Reactant Molecule and Semiconductor Photocatalyst: In Situ Doping. <i>Catalysis Surveys From Asia</i> , 2011 , 15, 240-258	2.8	12
74	Recent progress in photocatalytic conversion of carbon dioxide over gallium oxide and its nanocomposites. <i>Current Opinion in Chemical Engineering</i> , 2018 , 20, 114-121	5.4	11
73	Local Structure of Pr, Nd, and Sm Complex Oxides and Their X-ray Absorption Near Edge Structure Spectra. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 20881-20888	3.8	11
72	Solvothermal Synthesis of Ca ₂ Nb ₂ O ₇ Fine Particles and Their High Activity for Photocatalytic Water Splitting into H ₂ and O ₂ under UV Light Irradiation. <i>Chemistry Letters</i> , 2015 , 44, 1001-1003	1.7	11
71	Dual Ag/Co cocatalyst synergism for the highly effective photocatalytic conversion of CO by HO ₂ over Al-SrTiO ₃ . <i>Chemical Science</i> , 2021 , 12, 4940-4948	9.4	11
70	A detailed insight into the catalytic reduction of NO operated by Cr-Cu nanostructures embedded in a CeO ₂ surface. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 25592-25601	3.6	11
69	Development of Rh-Doped Ga ₂ O ₃ Photocatalysts for Reduction of CO ₂ by H ₂ O as an Electron Donor at a More than 300 nm Wavelength. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 21132-21139	3.8	11
68	Self-regeneration of a Ni-Cu alloy catalyst during a three-way catalytic reaction. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 18816-18822	3.6	10
67	Local Structure and L1- and L3-Edge X-ray Absorption Near Edge Structure of Late Lanthanide Elements (Ho, Er, Yb) in Their Complex Oxides. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 8070-8077	3.8	10
66	Photo-induced Surface Property on Transparent Mesoporous Silica Thin Films Containing Single-site Photocatalyst. <i>Topics in Catalysis</i> , 2008 , 47, 116-121	2.3	10
65	Role of Bicarbonate Ions in Aqueous Solution as a Carbon Source for Photocatalytic Conversion of CO ₂ into CO. <i>ACS Applied Energy Materials</i> , 2019 , 2, 5397-5405	6.1	9
64	Excellent Catalytic Activity of a Pd-Promoted MnO _x Catalyst for Purifying Automotive Exhaust Gases. <i>ChemCatChem</i> , 2020 , 12, 4276-4280	5.2	9
63	Dynamics of the Lattice Oxygen in a Ruddlesden-Popper-type Sr ₃ Fe ₂ O ₇ Catalyst during NO Oxidation. <i>ACS Catalysis</i> , 2020 , 10, 2528-2537	13.1	9
62	Metal Oxide Catalysts. <i>Series on Synchrotron Radiation Techniques and Applications</i> , 1996 , 304-325		9
61	Enhanced CO evolution for photocatalytic conversion of CO ₂ by H ₂ O over Ca modified Ga ₂ O ₃ . <i>Communications Chemistry</i> , 2020 , 3,	6.3	9
60	Optimized Synthesis of Ag-Modified Al-Doped SrTiO ₃ Photocatalyst for the Conversion of CO ₂ Using H ₂ O as an Electron Donor. <i>ChemistrySelect</i> , 2020 , 5, 8779-8786	1.8	9
59	NiPt Alloy Nanoparticles with Isolated Pt Atoms and Their Cooperative Neighboring Ni Atoms for Selective Hydrogenation of CO ₂ Toward CH ₄ Evolution: In Situ and Transient Fourier Transform Infrared Studies. <i>ACS Applied Nano Materials</i> , 2020 , 3, 9633-9644	5.6	9

58	A feasibility study of range-extended EXAFS measurement at the Pt L3-edge of Pt/Al ₂ O ₃ in the presence of Au ₂ O ₃ . <i>Journal of Analytical Atomic Spectrometry</i> , 2018 , 33, 84-89	3.7	9
57	Mechanism of NO ₂ reaction over highly dispersed cuprous oxide on alumina catalyst using a metal-support interfacial site in the presence of oxygen: similarities to and differences from biological systems. <i>Catalysis Science and Technology</i> , 2018 , 8, 3833-3845	5.5	9
56	Pd/SrFeTiO as Environmental Catalyst: Purification of Automotive Exhaust Gases. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 22182-22189	9.5	8
55	Pore-Size Dependence of the Acidic Property of Mesoporous Silica FSM-16. <i>Topics in Catalysis</i> , 2009 , 52, 657-663	2.3	8
54	Efficient oxygen storage property of SrFe mixed oxide as automotive catalyst support. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 1013-1021	13	7
53	Effect of molybdenum on the structure and performance of V ₂ O ₅ /TiO ₂ /BiO ₂ /MoO ₃ catalysts for the oxidative degradation of o-chlorotoluene. <i>Applied Catalysis A: General</i> , 2020 , 595, 117496	5.1	7
52	CO and C ₃ H ₆ oxidation over platinum-group metal (PGM) catalysts supported on Mn-modified hexagonal YbFeO ₃ . <i>Catalysis Today</i> , 2019 , 332, 183-188	5.3	7
51	Sodium Cation Substitution in SrKTaO toward Enhancement of Photocatalytic Conversion of CO Using HO as an Electron Donor. <i>ACS Omega</i> , 2017 , 2, 8187-8197	3.9	7
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