

Tsunehiro Tanaka

List of Publications by Year in descending order

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187
papers

9,088
citations

38660

50
h-index

48187

88
g-index

194
all docs

194
docs citations

194
times ranked

9977
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermally stable single atom Pt/m-Al ₂ O ₃ for selective hydrogenation and CO oxidation. Nature Communications, 2017, 8, 16100.	5.8	545
2	Ultrathin rhodium nanosheets. Nature Communications, 2014, 5, 3093.	5.8	428
3	A Series of NiM (M = Ru, Rh, and Pd) Bimetallic Catalysts for Effective Lignin Hydrogenolysis in Water. ACS Catalysis, 2014, 4, 1574-1583.	5.5	421
4	Photocatalytic Conversion of CO ₂ in Water over Layered Double Hydroxides. Angewandte Chemie - International Edition, 2012, 51, 8008-8011.	7.2	291
5	Selective Amine Oxidation Using Nb ₂ O ₅ Photocatalyst and O ₂ . ACS Catalysis, 2011, 1, 1150-1153.	5.5	258
6	X-ray absorption (EXAFS/XANES) study of supported vanadium oxide catalysts. Structure of surface vanadium oxide species on silica and γ -alumina at a low level of vanadium loading. Journal of the Chemical Society Faraday Transactions I, 1988, 84, 2987.	1.0	238
7	Photocatalytic Reduction of CO ₂ to CO in the Presence of H ₂ or CH ₄ as a Reductant over MgO. Journal of Physical Chemistry B, 2004, 108, 346-354.	1.2	237
8	Adsorbed Species of CO ₂ and H ₂ on Ga ₂ O ₃ for the Photocatalytic Reduction of CO ₂ . Journal of Physical Chemistry C, 2010, 114, 8892-8898.	1.5	181
9	In situ spectroscopy-guided engineering of rhodium single-atom catalysts for CO oxidation. Nature Communications, 2019, 10, 1330.	5.8	177
10	Zeolite-Encaged Pd-Mn Nanocatalysts for CO ₂ Hydrogenation and Formic Acid Dehydrogenation. Angewandte Chemie - International Edition, 2020, 59, 20183-20191.	7.2	175
11	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.	3.3	168
12	XAFS Study of Tungsten L ₁ - and L ₃ -Edges: Structural Analysis of WO ₃ Species Loaded on TiO ₂ as a Catalyst for Photo-oxidation of NH ₃ . Journal of Physical Chemistry C, 2008, 112, 6869-6879.	1.5	161
13	Effect of Ti ³⁺ 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.	1.5	147
14	Photocatalytic reduction of CO ₂ using H ₂ as reductant over ATaO ₃ photocatalysts (A = Li, Na, K). Applied Catalysis B: Environmental, 2010, 96, 565-568.	10.8	135
15	Photocatalytic conversion of CO ₂ in water over Ag-modified La ₂ Ti ₂ O ₇ . Applied Catalysis B: Environmental, 2015, 163, 241-247.	10.8	133
16	Deconvolution Analysis of Ga K-Edge XANES for Quantification of Gallium Coordinations in Oxide Environments. Journal of Physical Chemistry B, 1998, 102, 10190-10195.	1.2	128
17	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. Chemistry - A European Journal, 2014, 20, 9906-9909.	1.7	119
18	Photoreduction of CO ₂ with H ₂ over ZrO ₂ . A study on interaction of hydrogen with photoexcited CO ₂ . Physical Chemistry Chemical Physics, 2000, 2, 2635-2639.	1.3	117

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19	Metal-Dependent Support Effects of Oxyhydride-Supported Ru, Fe, Co Catalysts for Ammonia Synthesis. <i>Advanced Energy Materials</i> , 2018, 8, 1801772.	10.2	111
20	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.	1.2	109
21	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.	5.2	103
22	Analysis of XANES for identification of highly dispersed transition metal oxides on supports. <i>Catalysis Letters</i> , 1992, 12, 277-285.	1.4	102
23	Mechanism of Photooxidation of Alcohol over Nb ₂ O ₅ . <i>Journal of Physical Chemistry C</i> , 2009, 113, 18713-18718.	1.5	102
24	Photoreduction of carbon dioxide by hydrogen over magnesium oxide. <i>Physical Chemistry Chemical Physics</i> , 2001, 3, 1108-1113.	1.3	101
25	Reaction mechanism in the photoreduction of CO ₂ with CH ₄ over ZrO ₂ . <i>Physical Chemistry Chemical Physics</i> , 2000, 2, 5302-5307.	1.3	97
26	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.	2.1	94
27	Supported Tantalum Oxide Catalysts: Synthesis, Physical Characterization, and Methanol Oxidation Chemical Probe Reaction. <i>Journal of Physical Chemistry B</i> , 2003, 107, 5243-5250.	1.2	93
28	Modification of Metal Nanoparticles with TiO ₂ and Metal-Support Interaction in Photodeposition. <i>ACS Catalysis</i> , 2011, 1, 187-192.	5.5	88
29	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.	10.8	86
30	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.	2.9	85
31	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.	3.1	84
32	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.	1.7	81
33	One-electron reducibility of isolated copper oxide on alumina for selective NO-CO reaction. <i>Applied Catalysis B: Environmental</i> , 2006, 64, 282-289.	10.8	77
34	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, 17995-18003.	1.3	76
35	A Theoretical Investigation on CO Oxidation by Single-Atom Catalysts M ₁ /Al ₂ O ₃ (M=Pd, Fe, Co, and Ni). <i>ChemCatChem</i> , 2017, 9, 1222-1229. ^{1.8}		76
36	Structures and Acid-Base Properties of La/Al ₂ O ₃ Role of La Addition to Enhance Thermal Stability of γ-Al ₂ O ₃ . <i>Chemistry of Materials</i> , 2003, 15, 4830-4840.	3.2	74

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37	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.	1.3	72
38	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.	1.2	65
39	Liquid phase photooxidation of alcohol over niobium oxide without solvents. <i>Catalysis Today</i> , 2007, 120, 233-239.	2.2	65
40	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.	1.8	62
41	Strong metal-support interaction between Pt and SiO ₂ following high-temperature reduction: a catalytic interface for propane dehydrogenation. <i>Chemical Communications</i> , 2017, 53, 6937-6940.	2.2	61
42	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.	1.5	59
43	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.	2.1	58
44	XAFS study of zirconia-supported copper catalysts for the NO ⁺ CO reaction: Deactivation, rejuvenation and stabilization of Cu species. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1998, 94, 3743-3752.	1.7	57
45	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.	2.0	56
46	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.	2.5	56
47	Dynamic Behavior of Rh Species in Rh/Al ₂ O ₃ Model Catalyst during Three-Way Catalytic Reaction: An <i>in Operando</i> X-ray Absorption Spectroscopy Study. <i>Journal of the American Chemical Society</i> , 2018, 140, 176-184.	6.6	55
48	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.	1.5	54
49	Modification of Ga ₂ O ₃ by an Ag ⁺ Cr core ⁺ shell cocatalyst enhances photocatalytic CO evolution for the conversion of CO ₂ by H ₂ O. <i>Chemical Communications</i> , 2018, 54, 1053-1056.	2.2	53
50	Effect of reduction method on the activity of Pt ⁺ Sn/SiO ₂ for dehydrogenation of propane. <i>Catalysis Today</i> , 2014, 232, 33-39.	2.2	52
51	Structure of Active Species in Alkali-Ion-Modified Silica-Supported Vanadium Oxide. <i>Journal of Physical Chemistry B</i> , 1997, 101, 9035-9040.	1.2	50
52	Dehydrogenation of Propane over Silica-Supported Platinum-Tin Catalysts Prepared by Direct Reduction: Effects of Tin/Platinum Ratio and Reduction Temperature. <i>ChemCatChem</i> , 2014, 6, 2680-2691.	1.8	49
53	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.	1.5	48
54	Popping of Graphite Oxide: Application in Preparing Metal Nanoparticle Catalysts. <i>Advanced Materials</i> , 2015, 27, 4688-4694.	11.1	48

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55	Reaction Mechanism of Selective Photooxidation of Hydrocarbons over Nb ₂ O ₅ . Journal of Physical Chemistry C, 2011, 115, 19320-19327.	1.5	46
56	A ZnTa ₂ O ₆ photocatalyst synthesized via solid state reaction for conversion of CO ₂ into CO in water. Catalysis Science and Technology, 2016, 6, 4978-4985.	2.1	46
57	Alumina-Supported Rare-Earth Oxides Characterized by Acid-Catalyzed Reactions and Spectroscopic Methods. Journal of Physical Chemistry B, 2001, 105, 1908-1916.	1.2	45
58	Effects of reaction temperature on the photocatalytic activity of photo-SCR of NO with NH ₃ over a TiO ₂ photocatalyst. Catalysis Science and Technology, 2013, 3, 1771.	2.1	45
59	Local Structure and La L ₁ and L ₃ -Edge XANES Spectra of Lanthanum Complex Oxides. Inorganic Chemistry, 2014, 53, 6048-6053.	1.9	44
60	Structure of Mo ^{VI} /Mg Binary Oxides in Oxidized/Reduced States Studied by X-ray Absorption Spectroscopy at the Mo K Edge and Mg K Edge. The Journal of Physical Chemistry, 1996, 100, 5440-5446.	2.9	43
61	Photocatalytic conversion of CO ₂ in an aqueous solution using various kinds of layered double hydroxides. Catalysis Today, 2015, 251, 140-144.	2.2	43
62	Oxygen storage capacity of Sr ₃ Fe ₂ O ₇ having high structural stability. Journal of Materials Chemistry A, 2015, 3, 13540-13545.	5.2	43
63	Enhancement of CO Evolution by Modification of Ga ₂ O ₃ with Rare-Earth Elements for the Photocatalytic Conversion of CO ₂ by H ₂ O. Langmuir, 2017, 33, 13929-13935.	1.6	43
64	A nanoLDH catalyst with high CO ₂ adsorption capability for photo-catalytic reduction. Journal of Materials Chemistry A, 2018, 6, 9684-9690.	5.2	43
65	Physico-chemical and catalytic properties of ytterbium introduced into Y-zeolite. Journal of the Chemical Society, Faraday Transactions, 1993, 89, 3177.	1.7	41
66	Deactivation Mechanism of Pd/CeO ₂ –ZrO ₂ Three-Way Catalysts Analyzed by Chassis-Dynamometer Tests and <i>In Situ</i> Diffuse Reflectance Spectroscopy. ACS Catalysis, 2019, 9, 6415-6424.	5.5	40
67	CO ₂ capture, storage, and conversion using a praseodymium-modified Ga ₂ O ₃ photocatalyst. Journal of Materials Chemistry A, 2017, 5, 19351-19357.	5.2	38
68	Necessary and sufficient conditions for the successful three-phase photocatalytic reduction of CO ₂ by H ₂ O over heterogeneous photocatalysts. Physical Chemistry Chemical Physics, 2018, 20, 8423-8431.	1.3	38
69	Structural Analysis of Group V, VI, and VII Metal Compounds by XAFS. Journal of Physical Chemistry C, 2011, 115, 23653-23663.	1.5	36
70	Investigation of the electrochemical and photoelectrochemical properties of Ni–Al LDH photocatalysts. Physical Chemistry Chemical Physics, 2016, 18, 13811-13819.	1.3	36
71	Visible-Light Selective Photooxidation of Aromatic Hydrocarbons via Ligand-to-Metal Charge Transfer Transition on Nb ₂ O ₅ . Journal of Physical Chemistry C, 2017, 121, 22854-22861.	1.5	36
72	xTunes: A new XAS processing tool for detailed and on-the-fly analysis. Radiation Physics and Chemistry, 2020, 175, 108270.	1.4	36

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73	Brønsted Acid Generation over Alumina-Supported Niobia by Calcination at 1173 K. <i>Catalysis Letters</i> , 2009, 129, 383-386.	1.4	35
74	A unique photo-activation mechanism by <i>in situ</i> 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.	2.1	35
75	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.	2.5	35
76	Title is missing!. <i>Topics in Catalysis</i> , 2002, 18, 113-118.	1.3	34
77	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.	10.8	34
78	Dual Ag/Co cocatalyst synergism for the highly effective photocatalytic conversion of CO ₂ by H ₂ O over Al-SrTiO ₃ . <i>Chemical Science</i> , 2021, 12, 4940-4948.	3.7	34
79	Photoassisted NO reduction with NH ₃ over TiO ₂ photocatalyst. <i>Chemical Communications</i> , 2002, , 2742-2743.	2.2	33
80	XAFS and XRD Analysis of Ceria-Zirconia Oxygen Storage Promoters for Automotive Catalysts. <i>Topics in Catalysis</i> , 2008, 47, 137-147.	1.3	33
81	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.	2.1	33
82	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.	3.2	32
83	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.	1.6	30
84	Ionic Liquid-Stabilized Single-Atom Rh Catalyst Against Leaching. <i>CCS Chemistry</i> , 2021, 3, 1814-1822.	4.6	30
85	Effect of Calcium Sulfate Addition on the Activity of the Absorbent for Dry Flue Gas Desulfurization. <i>Energy & Fuels</i> , 2001, 15, 438-443.	2.5	29
86	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.	2.1	29
87	Isolated Platinum Atoms in Ni ³⁺ -Al ₂ O ₃ for Selective Hydrogenation of CO ₂ toward CH ₄ . <i>Journal of Physical Chemistry C</i> , 2019, 123, 23446-23454.	1.5	29
88	Highly Active and Stable Pt-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.	1.8	28
89	Size Controlled Synthesis of Gold Nanoparticles by Porphyrin with Four Sulfur Atoms. <i>Topics in Catalysis</i> , 2009, 52, 852-859.	1.3	27
90	Enhanced oxygen-release/storage properties of Pd-loaded Sr ₃ Fe ₂ O ₇ . <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 14107-14113.	1.3	27

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91	Valence Variation of Yb Encapsulated in the Supercage of Y-Type Zeolite. Japanese Journal of Applied Physics, 1993, 32, 481.	0.8	26
92	Oxygen Storage Property and Chemical Stability of SrFe _{1-x} Ti _x O ₃ with Robust Perovskite Structure. Journal of Physical Chemistry C, 2017, 121, 19358-19364.	1.5	26
93	Enhanced CO evolution for photocatalytic conversion of CO ₂ by H ₂ O over Ca modified Ga ₂ O ₃ . Communications Chemistry, 2020, 3, .	2.0	26
94	Optimized Synthesis of Ag-Modified Al-Doped SrTiO ₃ Photocatalyst for the Conversion of CO ₂ Using H ₂ O as an Electron Donor. ChemistrySelect, 2020, 5, 8779-8786.	0.7	26
95	Highly Selective Photocatalytic Conversion of Carbon Dioxide by Water over Al-SrTiO ₃ Photocatalyst Modified with Silver-Metal Dual Cocatalysts. ACS Sustainable Chemistry and Engineering, 2021, 9, 9327-9335.	3.2	26
96	Reaction Mechanism and the Role of Copper in the Photooxidation of Alcohol over Cu/Nb ₂ O ₅ . ChemPhysChem, 2011, 12, 2823-2830.	1.0	24
97	Flux method fabrication of potassium rare-earth tantalates for CO ₂ photoreduction using H ₂ O as an electron donor. Catalysis Today, 2018, 300, 173-182.	2.2	24
98	Ni-Pt Alloy Nanoparticles with Isolated Pt Atoms and Their Cooperative Neighboring Ni Atoms for Selective Hydrogenation of CO ₂ Toward CH ₄ Evolution: <i>In Situ</i> and Transient Fourier Transform Infrared Studies. ACS Applied Nano Materials, 2020, 3, 9633-9644.	2.4	24
99	Selective reduction of NO over Cu/Al ₂ O ₃ : Enhanced catalytic activity by infinitesimal loading of Rh on Cu/Al ₂ O ₃ . Molecular Catalysis, 2017, 442, 74-82.	1.0	23
100	NO _x Oxidation and Storage Properties of a Ruddlesden-Popper-Type Sr ₃ Fe ₂ O ₇ -Layered Perovskite Catalyst. ACS Applied Materials & Interfaces, 2019, 11, 26985-26993.	4.0	23
101	In Situ Time-Resolved Energy-Dispersive XAFS Study on Reduction Behavior of Pt Supported on TiO ₂ and Al ₂ O ₃ . Catalysis Letters, 2009, 131, 413-418.	1.4	22
102	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. Journal of Physical Chemistry C, 2018, 122, 21132-21139.	1.5	22
103	Zeolite-Encaged Pd-Mn Nanocatalysts for CO ₂ Hydrogenation and Formic Acid Dehydrogenation. Angewandte Chemie, 2020, 132, 20358-20366.	1.6	22
104	Striking Oxygen-Release/Storage Properties of Fe-Site-Substituted Sr ₃ Fe ₂ O ₇ . Journal of Physical Chemistry C, 2018, 122, 11186-11193.	1.5	21
105	Structural analysis of tungsten-zirconium oxide catalyst by W K-edge and L ₁ -edge XAFS. X-Ray Spectrometry, 2008, 37, 226-231.	0.9	19
106	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. Journal of the Chemical Society Chemical Communications, 1987, , 506.	2.0	18
107	Selective Catalytic Reduction of NO by NH ₃ over Photocatalysts (Photo-SCR): Mechanistic Investigations and Developments. Chemical Record, 2016, 16, 2268-2277.	2.9	18
108	Metal oxide promoted TiO ₂ catalysts for photo-assisted selective catalytic reduction of NO with NH ₃ . Research on Chemical Intermediates, 2008, 34, 487-494.	1.3	17

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109	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.	0.3	16
110	Mechanism of NO _x -CO reaction over highly dispersed cuprous oxide on γ -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.	2.1	16
111	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.	2.5	16
112	Self-regeneration of a Ni ⁺ -Cu alloy catalyst during a three-way catalytic reaction. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 18816-18822.	1.3	16
113	Rational Design of a Molecular Nanocatalyst ⁺ Stabilizer that Enhances both Catalytic Activity and Nanoparticle Stability. <i>ChemCatChem</i> , 2012, 4, 1907-1910.	1.8	15
114	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.	1.5	15
115	Characterization of Cu Nanoparticles on TiO ₂ Photocatalysts Fabricated by Electroless Plating Method. <i>Topics in Catalysis</i> , 2014, 57, 975-983.	1.3	15
116	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.	3.8	15
117	Fe-Modified CuNi Alloy Catalyst as a Nonprecious Metal Catalyst for Three-Way Catalysis. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 19907-19917.	1.8	15
118	Imparting CO ₂ reduction selectivity to ZnGa ₂ O ₄ photocatalysts by crystallization from hetero nano assembly of amorphous-like metal hydroxides. <i>RSC Advances</i> , 2020, 10, 8066-8073.	1.7	15
119	Generation of Brønsted Acid Over Alumina-Supported Niobia Calcined at High Temperatures. <i>Topics in Catalysis</i> , 2010, 53, 672-677.	1.3	14
120	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.	0.7	14
121	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.	1.5	14
122	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.	1.3	14
123	The importance of direct reduction in the synthesis of highly active Pt ⁺ -Sn/SBA-15 for <i>n</i> -butane dehydrogenation. <i>Catalysis Science and Technology</i> , 2019, 9, 947-956.	2.1	14
124	Oxidation and Storage Mechanisms for Nitrogen Oxides on Various Terminated (001) Surfaces of SrFeO _{3-δ} and Sr ₃ Fe ₂ O _{7-δ} Perovskites. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 7216-7226.	4.0	14
125	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. <i>Catalysis Science and Technology</i> , 2012, 2, 1685.	2.1	13
126	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.	2.1	13

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127	Pd/SrFe _{1-x} Ti _x O ₃ as Environmental Catalyst: Purification of Automotive Exhaust Gases. ACS Applied Materials & Interfaces, 2018, 10, 22182-22189.	4.0	13
128	Deactivation Mechanism and Enhanced Durability of V ₂ O ₅ /TiO ₂ -SiO ₂ -MoO ₃ Catalysts for NH ₃ -SCR in the Presence of SO ₂ . ChemCatChem, 2020, 12, 5938-5947.	1.8	13
129	Structural analysis of group V, VI, VII metal compounds by XAFS and DFT calculation. Journal of Physics: Conference Series, 2009, 190, 012073.	0.3	12
130	Photo-Induced Electron Transfer Between a Reactant Molecule and Semiconductor Photocatalyst: In Situ Doping. Catalysis Surveys From Asia, 2011, 15, 240-258.	1.0	12
131	Efficient oxygen storage property of Sr-Fe mixed oxide as automotive catalyst support. Journal of Materials Chemistry A, 2019, 7, 1013-1021.	5.2	12
132	Pt-Co Alloy Nanoparticles on a γ -Al ₂ O ₃ Support: Synergistic Effect between Isolated Electron-Rich Pt and Co for Automotive Exhaust Purification. ChemPlusChem, 2019, 84, 447-456.	1.3	12
133	Dynamics of the Lattice Oxygen in a Ruddlesden-Popper-type Sr ₃ Fe ₂ O ₇ Catalyst during NO Oxidation. ACS Catalysis, 2020, 10, 2528-2537.	5.5	12
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