

# Isao Nakamura

## List of Publications by Year in descending order

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64  
papers

4,098  
citations

126858

33  
h-index

114418

63  
g-index

67  
all docs

67  
docs citations

67  
times ranked

4814  
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct synthesis of triazines from alcohols and amidines using supported Pt nanoparticle catalysts via the acceptorless dehydrogenative methodology. <i>Catalysis Science and Technology</i> , 2022, 12, 4679-4687.	2.1	4
2	High-throughput development of highly active catalyst system to convert bioethanol to 1,3-butadiene. <i>Reaction Chemistry and Engineering</i> , 2021, 6, 1381-1385.	1.9	7
3	Flow reactor approach for the facile and continuous synthesis of efficient Pd@Pt core-shell nanoparticles for acceptorless dehydrogenative synthesis of pyrimidines from alcohols and amidines. <i>Applied Catalysis A: General</i> , 2021, 619, 118158.	2.2	9
4	Continuous-flow synthesis of Pd@Pt core-shell nanoparticles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 620, 126607.	2.3	15
5	Fundamental roles of ZnO and ZrO <sub>2</sub> in the conversion of ethanol to 1,3-butadiene over ZnO–ZrO <sub>2</sub> /SiO <sub>2</sub> . <i>Catalysis Science and Technology</i> , 2020, 10, 7531-7541.	2.1	13
6	Effect of Catalyst Preparation Method on Ammonia Decomposition Reaction over Ru/MgO Catalyst. <i>Bulletin of the Chemical Society of Japan</i> , 2020, 93, 1186-1192.	2.0	16
7	H <sub>2</sub> O Dissociation at the Perimeter Interface between Gold Nanoparticles and TiO <sub>2</sub> Is Crucial for Oxidation of CO. <i>ACS Catalysis</i> , 2020, 10, 2517-2521.	5.5	29
8	Catalytic performance of H-ZSM-5 zeolites for conversion of ethanol or ethylene to propylene: Effect of reaction pressure and SiO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> ratio. <i>Catalysis Communications</i> , 2017, 91, 62-66.	1.6	36
9	Highly selective catalytic conversion of ethanol to propylene over yttrium-modified zirconia catalyst. <i>Catalysis Communications</i> , 2017, 90, 10-13.	1.6	32
10	Role of metal oxide supports in NH <sub>3</sub> decomposition over Ni catalysts. <i>Applied Catalysis A: General</i> , 2016, 524, 45-49.	2.2	65
11	Mechanism and active sites of CO oxidation over single-crystal Au surfaces and a Au/TiO <sub>2</sub> (110) model surface. <i>Chinese Journal of Catalysis</i> , 2016, 37, 1676-1683.	6.9	8
12	Effects of particle size on catalytic conversion of ethanol to propylene over H-ZSM-5 catalysts—Smaller is better. <i>Catalysis Communications</i> , 2016, 73, 27-33.	1.6	30
13	Effect of Water on Low-Temperature CO Oxidation Over a Au/Al <sub>2</sub> O <sub>3</sub> Model Catalyst. <i>Catalysis Letters</i> , 2014, 144, 1113-1117.	1.4	2
14	Role of Water in CO Oxidation on Gold Catalysts. <i>Catalysis Letters</i> , 2014, 144, 1475-1486.	1.4	66
15	Difference between the mechanisms of propylene production from methanol and ethanol over ZSM-5 catalysts. <i>Applied Catalysis A: General</i> , 2013, 467, 380-385.	2.2	47
16	Characteristics and Photocatalytic Properties of Thin Film Prepared by Sputter Deposition and Post-N <sup>+</sup> Ion Implantation. <i>Advances in Materials Science and Engineering</i> , 2012, 2012, 1-7.	1.0	12
17	Heterogeneous Catalysis by Gold. <i>Advances in Catalysis</i> , 2012, 55, 1-126.	0.1	139
18	Influence of Au and TiO <sub>2</sub> structures on hydrogen dissociation over TiO <sub>2</sub> /Au(100). <i>Surface Science</i> , 2012, 606, 1581-1585.	0.8	8

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19	Effects of added phosphorus on conversion of ethanol to propylene over ZSM-5 catalysts. Applied Catalysis A: General, 2012, 423-424, 162-167.	2.2	67
20	Active Sites for Hydrogen Dissociation over TiO <sub>2</sub> /Au(111) Surfaces. Journal of Physical Chemistry C, 2011, 115, 16074-16080.	1.5	41
21	Mechanism and Active Sites of the Oxidation of CO over Au/TiO <sub>2</sub> . Angewandte Chemie - International Edition, 2011, 50, 10144-10147.	7.2	206
22	Study of active sites on the MFI zeolite catalysts for the transformation of ethanol into propylene. Journal of Molecular Catalysis A, 2010, 328, 114-118.	4.8	48
23	Phosphorus-modified ZSM-5 for conversion of ethanol to propylene. Applied Catalysis A: General, 2010, 384, 201-205.	2.2	126
24	Adsorption and Reaction Properties of NO and CO over the Ir and Rh Surfaces. Journal of the Vacuum Society of Japan, 2009, 52, 61-66.	0.3	1
25	Effect of Al <sub>2</sub> O <sub>3</sub> support on morphology and NO reactivity of Rh. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2009, 27, 895-899.	0.9	0
26	Hydrogen Dissociation by Gold Clusters. Angewandte Chemie - International Edition, 2009, 48, 9515-9518.	7.2	277
27	Selective Dissociation of O <sub>3</sub> and Adsorption of CO on Various Au Single Crystal Surfaces. Catalysis Letters, 2009, 129, 400-403.	1.4	35
28	Adsorption Behavior and Reaction Properties of NO and CO on Ir(111) and Rh(111). Catalysis Surveys From Asia, 2009, 13, 22-29.	1.0	13
29	Kinetics and mechanism of NO reduction with CO on Ir surfaces. Journal of Catalysis, 2008, 253, 139-147.	3.1	29
30	Reaction properties of NO and CO over an Ir(211) surface. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2007, 25, 1143-1146.	0.9	10
31	Adsorption and reactivity of SO <sub>2</sub> on Ir(111) and Rh(111). Surface Science, 2007, 601, 1615-1622.	0.8	19
32	Excellent Promoting Effect of Ba Addition on the Catalytic Activity of Ir/WO <sub>3</sub> –SiO <sub>2</sub> for the Selective Reduction of NO with CO. Chemistry Letters, 2006, 35, 420-421.	0.7	17
33	Direct decomposition of nitrogen monoxide over a K-deposited Co(0001) surface: Comparison to K-doped cobalt oxide catalysts. Journal of Electron Spectroscopy and Related Phenomena, 2006, 150, 150-154.	0.8	10
34	Role of tungsten in promoting selective reduction of NO with CO over Ir/WO <sub>3</sub> –SiO <sub>2</sub> catalysts. Catalysis Letters, 2006, 112, 133-138.	1.4	23
35	Adsorption behavior and reaction properties of NO and CO on Rh(111). Surface Science, 2006, 600, 3235-3242.	0.8	51
36	Structure and NO reactivity of Zr-deposited Pd surfaces. Applied Surface Science, 2005, 240, 77-84.	3.1	0

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37	Promotional effect of SO <sub>2</sub> on the activity of Ir/SiO <sub>2</sub> for NO reduction with CO under oxygen-rich conditions. <i>Journal of Catalysis</i> , 2005, 229, 197-205.	3.1	83
38	Effects of added 3d transition-metals on Ag-based catalysts for direct epoxidation of propylene by oxygen. <i>Applied Catalysis A: General</i> , 2005, 294, 34-39.	2.2	39
39	Catalytic Active Site for NO Decomposition Elucidated by Surface Science and Real Catalyst. <i>Catalysis Surveys From Asia</i> , 2005, 9, 207-215.	1.0	22
40	Reactivity of NO over K-deposited Pd(111) and surface structure of the catalyst. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2005, 23, 1051-1054.	0.9	0
41	A density functional study of NO adsorption and decomposition on Ni(211) and Pd(211) surfaces. <i>Journal of Chemical Physics</i> , 2005, 122, 014703.	1.2	15
42	Adsorption and Reactions of NO on Clean and CO-Precovered Ir(111). <i>Journal of Physical Chemistry B</i> , 2005, 109, 17603-17607.	1.2	48
43	Studies of NO Adsorption on Pt(110)-(1 $\bar{1}$ –2) and (1 $\bar{1}$ –1) Surfaces Using Density Functional Theory. <i>Journal of Physical Chemistry B</i> , 2005, 109, 10312-10318.	1.2	15
44	Adsorption and decomposition of NO on stepped and K-deposited Pd surfaces: a comparison of NO stretching vibrational frequencies calculated by density functional theory and measured by infrared spectroscopy. <i>Surface Science</i> , 2004, 571, 102-116.	0.8	13
45	NO Decomposition on an Mn-Deposited Pd(100) Surface. <i>Catalysis Letters</i> , 2003, 87, 91-96.	1.4	4
46	Adsorption and decomposition of NO on K-deposited Pd(111). <i>Surface Science</i> , 2003, 544, 45-50.	0.8	13
47	Effect of surface structure of supported palladium catalysts on the activity for direct decomposition of nitrogen monoxide. <i>Journal of Catalysis</i> , 2003, 218, 405-410.	3.1	33
48	Methanol Synthesis from CO and CO <sub>2</sub> Hydrogenations over Supported Palladium Catalysts. <i>Bulletin of the Chemical Society of Japan</i> , 2002, 75, 1393-1398.	2.0	56
49	Comprehensive study combining surface science and real catalyst for NO direct decomposition. <i>Chemical Communications</i> , 2002, , 2816-2817.	2.2	22
50	Adsorption and decomposition of NO on Pd surfaces. <i>Surface Science</i> , 2002, 514, 409-413.	0.8	47
51	Structure-Dependent Kinetics for Synthesis and Decomposition of Formate Species over Cu(111) and Cu(110) Model Catalysts. <i>Journal of Physical Chemistry B</i> , 2001, 105, 1355-1365.	1.2	79
52	Mechanism for NO Photooxidation over the Oxygen-Deficient TiO <sub>2</sub> Powder under Visible Light Irradiation. <i>Chemistry Letters</i> , 2000, 29, 1276-1277.	0.7	44
53	Preparation of Visible-Light-Responsive Titanium Oxide Photocatalysts by Plasma Treatment. <i>Chemistry Letters</i> , 2000, 29, 1354-1355.	0.7	85
54	Role of oxygen vacancy in the plasma-treated TiO <sub>2</sub> photocatalyst with visible light activity for NO removal. <i>Journal of Molecular Catalysis A</i> , 2000, 161, 205-212.	4.8	1,110

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55	Synthesis and decomposition of formate on Cu(111) and Cu(110) surfaces: Structure sensitivity. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1999, 17, 1592-1595.	0.9	36
56	The synthesis of methanol and the reverse water-gas shift reaction over Zn-deposited Cu(100) and Cu(110) surfaces: comparison with Zn/Cu(111). <i>Surface Science</i> , 1998, 400, 387-400.	0.8	79
57	Evidence for a special formate species adsorbed on the Cu-Zn active site for methanol synthesis. <i>Surface Science</i> , 1998, 402-404, 92-95.	0.8	75
58	The kinetics and mechanism of methanol synthesis by hydrogenation of CO <sub>2</sub> over a Zn-deposited Cu(111) surface. <i>Surface Science</i> , 1997, 383, 285-298.	0.8	185
59	Methanol synthesis by hydrogenation of CO <sub>2</sub> over a Zn-deposited Cu(111): formate intermediate. <i>Applied Surface Science</i> , 1997, 121-122, 583-586.	3.1	37
60	A model catalyst for methanol synthesis: Zn-deposited and Zn-free Cu surfaces. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1996, 14, 1464-1468.	0.9	71
61	A Surface Science Investigation of Methanol Synthesis over a Zn-Deposited Polycrystalline Cu Surface. <i>Journal of Catalysis</i> , 1996, 160, 65-75.	3.1	121
62	Model studies of methanol synthesis on copper catalysts. <i>Studies in Surface Science and Catalysis</i> , 1996, 101, 1389-1399.	1.5	61
63	Methanol synthesis by the hydrogenation of CO <sub>2</sub> over Zn-deposited Cu(111) and Cu(110) surfaces. <i>Catalysis Letters</i> , 1995, 35, 297-302.	1.4	40
64	Methanol synthesis over a Zn-deposited copper model catalyst. <i>Catalysis Letters</i> , 1995, 31, 325-331.	1.4	72