

Shigeo Ted Oyama

List of Publications by Year in descending order

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40
papers

2,796
citations

331670

21
h-index

289244

40
g-index

40
all docs

40
docs citations

40
times ranked

3024
citing authors

#	ARTICLE	IF	CITATIONS
1	Correlations in palladium membranes for hydrogen separation: A review. <i>Journal of Membrane Science</i> , 2011, 375, 28-45.	8.2	536
2	Hydrodeoxygenation of guaiacol as model compound for pyrolysis oil on transition metal phosphide hydroprocessing catalysts. <i>Applied Catalysis A: General</i> , 2011, 391, 305-310.	4.3	500
3	The active site of nickel phosphide catalysts for the hydrodesulfurization of 4,6-DMDBT. <i>Journal of Catalysis</i> , 2008, 258, 393-400.	6.2	248
4	Studies of the synthesis of transition metal phosphides and their activity in the hydrodeoxygenation of a biofuel model compound. <i>Journal of Catalysis</i> , 2012, 294, 184-198.	6.2	214
5	Upgrading of pyrolysis bio-oil using nickel phosphide catalysts. <i>Journal of Catalysis</i> , 2016, 333, 115-126.	6.2	147
6	Effect of composition and promoters in Au/TS-1 catalysts for direct propylene epoxidation using H ₂ and O ₂ . <i>Catalysis Today</i> , 2009, 147, 186-195.	4.4	95
7	Nature of active sites in Ni ₂ P hydrotreating catalysts as probed by iron substitution. <i>Applied Catalysis B: Environmental</i> , 2015, 164, 204-216.	20.2	91
8	EXAFS measurements of a working catalyst in the liquid phase: An in situ study of a Ni ₂ P hydrodesulfurization catalyst. <i>Journal of Catalysis</i> , 2006, 241, 20-24.	6.2	81
9	Ultrathin, hydrogen-selective silica membranes deposited on alumina-graded structures prepared from size-controlled boehmite sols. <i>Journal of Membrane Science</i> , 2007, 306, 216-227.	8.2	76
10	Kinetics of propylene epoxidation using H ₂ and O ₂ over a gold/mesoporous titanosilicate catalyst. <i>Catalysis Today</i> , 2007, 123, 189-197.	4.4	75
11	Unprecedented selectivity to the direct desulfurization (DDS) pathway in a highly active FeNi bimetallic phosphide catalyst. <i>Journal of Catalysis</i> , 2012, 285, 1-5.	6.2	73
12	Effect of gold oxidation state on the epoxidation and hydrogenation of propylene on Au/TS-1. <i>Journal of Catalysis</i> , 2011, 280, 40-49.	6.2	60
13	The influence of recycling non-condensable gases in the fractional catalytic pyrolysis of biomass. <i>Bioresource Technology</i> , 2012, 111, 482-490.	9.6	59
14	Gas-phase epoxidation of propylene through radicals generated by silica-supported molybdenum oxide. <i>Applied Catalysis A: General</i> , 2007, 316, 142-151.	4.3	56
15	Enhanced reactivity of direct propylene epoxidation with H ₂ and O ₂ over Ge-modified Au/TS-1 catalysts. <i>Journal of Catalysis</i> , 2009, 267, 202-206.	6.2	55
16	Mechanistic study of propane selective oxidation with H ₂ and O ₂ on Au/TS-1. <i>Journal of Catalysis</i> , 2008, 257, 32-42.	6.2	46
17	Ligand and Ensemble Effects in Bimetallic NiFe Phosphide Catalysts for the Hydrodeoxygenation of 2-Methyltetrahydrofuran. <i>Topics in Catalysis</i> , 2012, 55, 969-980.	2.8	44
18	Effects of ball-milling treatment on physicochemical properties and solid base activity of hexagonal boron nitrides. <i>Catalysis Science and Technology</i> , 2019, 9, 302-309.	4.1	42

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19	Experimental and kinetic studies of the ethanol steam reforming reaction equipped with ultrathin Pd and Pd-Cu membranes for improved conversion and hydrogen yield. <i>Journal of Membrane Science</i> , 2012, 409-410, 222-231.	8.2	36
20	Scanning Tunneling Microscopy and Photoemission Electron Microscopy Studies on Single Crystal Ni ₂ P Surfaces. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 195-201.	0.9	30
21	Gas-phase radical generation by Ti oxide clusters supported on silica: application to the direct epoxidation of propylene to propylene oxide using molecular oxygen as an oxidant. <i>Catalysis Letters</i> , 2006, 110, 47-51.	2.6	23
22	Design of a high-temperature and high-pressure liquid flow cell for x-ray absorption fine structure measurements under catalytic reaction conditions. <i>Review of Scientific Instruments</i> , 2008, 79, 014101.	1.3	21
23	Platinum-Like Catalytic Behavior of Au ⁺ . <i>ChemCatChem</i> , 2010, 2, 1582-1586.	3.7	16
24	Operando QEXAFS studies of Ni ₂ P during thiophene hydrodesulfurization: direct observation of Ni-S bond formation under reaction conditions. <i>Journal of Synchrotron Radiation</i> , 2012, 19, 205-209.	2.4	15
25	Infrared spectroscopic studies of the hydrodeoxygenation of Î ³ -valerolactone on Ni ₂ P/MCM-41. <i>Catalysis Today</i> , 2019, 323, 54-61.	4.4	15
26	A New One-Pot Sequential Reduction-Deposition Method for the synthesis of Silica-supported NiPt and CuPt Bimetallic Catalysts. <i>Applied Catalysis A: General</i> , 2020, 591, 117371.	4.3	14
27	The Direct Partial Oxidation of Methane to Dimethyl Ether over Pt/Y ₂ O ₃ Catalysts Using an NO/O ₂ Shuttle. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 16644-16650.	13.8	14
28	Surface-Initiated Gas-Phase Epoxidation of Propylene with Molecular Oxygen by Silica-Supported Molybdenum Oxide: Effects of Addition of C ₃ H ₈ or NO and Reactor Design. <i>Catalysis Letters</i> , 2008, 121, 33-38.	2.6	13
29	The optimal point within the Robeson upper boundary. <i>Chemical Engineering Research and Design</i> , 2015, 97, 109-119.	5.6	13
30	Combined In Situ XAFS and FTIR Study of the Hydrodeoxygenation Reaction of 2-Methyltetrahydrofuran on Ni ₂ P/SiO ₂ . <i>Journal of Physical Chemistry C</i> , 2019, 123, 7633-7643.	3.1	12
31	Gas Separation Silica Membranes Prepared by Chemical Vapor Deposition of Methyl-Substituted Silanes. <i>Membranes</i> , 2019, 9, 144.	3.0	12
32	Interplay of Kinetics and Thermodynamics in Catalytic Steam Methane Reforming over Ni/MgO-SiO ₂ . <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 1148-1158.	3.7	11
33	Synthesis of Silica Membranes by Chemical Vapor Deposition Using a Dimethyldimethoxysilane Precursor. <i>Membranes</i> , 2020, 10, 50.	3.0	10
34	The influence of solvent polarity on the dehydrogenation of isoborneol over a Cu/ZnO/Al ₂ O ₃ catalyst. <i>Catalysis Today</i> , 2019, 323, 44-53.	4.4	9
35	Applicability of the Delplot method for the determination of catalytic reaction sequences: Hydrodeoxygenation of Î ³ -valerolactone on Ni ₂ P/MCM-41. <i>Chemical Engineering Science</i> , 2020, 223, 115697.	3.8	9
36	Simulation study of single-gas permeation of carbon dioxide and methane in hybrid inorganic-organic membrane. <i>Journal of Membrane Science</i> , 2012, 387-388, 30-39.	8.2	8

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37	Fabrication and Evaluation of Trimethylmethoxysilane (TMMOS)-Derived Membranes for Gas Separation. <i>Membranes</i> , 2019, 9, 123.	3.0	8
38	Calcium-Modified Ni-SDC Anodes in Solid Oxide Fuel Cells for Direct Dry Reforming of Methane. <i>Journal of the Electrochemical Society</i> , 2020, 167, 134512.	2.9	5
39	Direct electrochemical synthesis of oxygenates from ethane using phosphate-based electrolysis cells. <i>Chemical Communications</i> , 2020, 56, 11199-11202.	4.1	2
40	The Direct Partial Oxidation of Methane to Dimethyl Ether over Pt/Y ₂ O ₃ Catalysts Using an NO/O ₂ Shuttle. <i>Angewandte Chemie</i> , 2020, 132, 16787-16793.	2.0	2