

Atsushi Takagaki

List of Publications by Year in descending order

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129
papers

7,876
citations

71061

41
h-index

51562

86
g-index

136
all docs

136
docs citations

136
times ranked

7379
citing authors

#	ARTICLE	IF	CITATIONS
1	Biodiesel made with sugar catalyst. <i>Nature</i> , 2005, 438, 178-178.	13.7	735
2	A Carbon Material as a Strong Protonic Acid. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 2955-2958.	7.2	519
3	Acid-Catalyzed Reactions on Flexible Polycyclic Aromatic Carbon in Amorphous Carbon. <i>Chemistry of Materials</i> , 2006, 18, 3039-3045.	3.2	509
4	Hydrotalcite-supported gold-nanoparticle-catalyzed highly efficient base-free aqueous oxidation of 5-hydroxymethylfurfural into 2,5-furandicarboxylic acid under atmospheric oxygen pressure. <i>Green Chemistry</i> , 2011, 13, 824.	4.6	389
5	A one-pot reaction for biorefinery: combination of solid acid and base catalysts for direct production of 5-hydroxymethylfurfural from saccharides. <i>Chemical Communications</i> , 2009, , 6276.	2.2	299
6	Esterification of higher fatty acids by a novel strong solid acid. <i>Catalysis Today</i> , 2006, 116, 157-161.	2.2	266
7	Exfoliated Nanosheets as a New Strong Solid Acid Catalyst. <i>Journal of the American Chemical Society</i> , 2003, 125, 5479-5485.	6.6	247
8	One-Pot Synthesis of 2,5-Diformylfuran from Carbohydrate Derivatives by Sulfonated Resin and Hydrotalcite-Supported Ruthenium Catalysts. <i>ACS Catalysis</i> , 2011, 1, 1562-1565.	5.5	233
9	Characterization, synthesis and catalysis of hydrotalcite-related materials for highly efficient materials transformations. <i>Green Chemistry</i> , 2013, 15, 2026.	4.6	219
10	Glucose production from saccharides using layered transition metal oxide and exfoliated nanosheets as a water-tolerant solid acid catalyst. <i>Chemical Communications</i> , 2008, , 5363.	2.2	214
11	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.	3.1	214
12	Syntheses of 5-hydroxymethylfurfural and levoglucosan by selective dehydration of glucose using solid acid and base catalysts. <i>Applied Catalysis A: General</i> , 2010, 383, 149-155.	2.2	177
13	Synthesis of glycerol carbonate from glycerol and dialkyl carbonates using hydrotalcite as a reusable heterogeneous base catalyst. <i>Green Chemistry</i> , 2010, 12, 578.	4.6	170
14	Nanosheets as highly active solid acid catalysts for green chemical syntheses. <i>Energy and Environmental Science</i> , 2010, 3, 82-93.	15.6	167
15	Upgrading of pyrolysis bio-oil using nickel phosphide catalysts. <i>Journal of Catalysis</i> , 2016, 333, 115-126.	3.1	147
16	Highly Active Mesoporous Nb ⁵⁺ /W Oxide Solid Acid Catalyst. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 1128-1132.	7.2	124
17	Exfoliated HNb ₃ O ₈ Nanosheets as a Strong Protonic Solid Acid. <i>Chemistry of Materials</i> , 2005, 17, 2487-2489.	3.2	117
18	Kinetic studies of hydrodeoxygenation of 2-methyltetrahydrofuran on a Ni ₂ P/SiO ₂ catalyst at medium pressure. <i>Journal of Catalysis</i> , 2014, 311, 17-27.	3.1	112

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19	Efficient Utilization of Nanospace of Layered Transition Metal Oxide HNbMoO_6 as a Strong, Water-Tolerant Solid Acid Catalyst. <i>Journal of the American Chemical Society</i> , 2008, 130, 7230-7231.	6.6	103
20	Selective Oxidation of Glycerol by Using a Hydrotalcite-Supported Platinum Catalyst under Atmospheric Oxygen Pressure in Water. <i>ChemSusChem</i> , 2011, 4, 542-548.	3.6	100
21	Titanium Niobate and Titanium Tantalate Nanosheets as Strong Solid Acid Catalysts. <i>Journal of Physical Chemistry B</i> , 2004, 108, 11549-11555.	1.2	99
22	Catalytic Transformations of Biomass-Derived Materials into Value-Added Chemicals. <i>Catalysis Surveys From Asia</i> , 2012, 16, 164-182.	1.0	89
23	Role of base in the formation of silver nanoparticles synthesized using sodium acrylate as a dual reducing and encapsulating agent. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 9335.	1.3	87
24	Study of Ru Ni/TiO ₂ catalysts for selective CO methanation. <i>Applied Catalysis B: Environmental</i> , 2013, 140-141, 258-264.	10.8	82
25	One-pot Formation of Furfural from Xylose via Isomerization and Successive Dehydration Reactions over Heterogeneous Acid and Base Catalysts. <i>Chemistry Letters</i> , 2010, 39, 838-840.	0.7	78
26	Solid Lewis acidity of boehmite $\gamma\text{-AlO}(\text{OH})$ and its catalytic activity for transformation of sugars in water. <i>RSC Advances</i> , 2014, 4, 43785-43791.	1.7	69
27	Characterization of HNbWO_6 and HTaWO_6 Metal Oxide Nanosheet Aggregates As Solid Acid Catalysts. <i>Journal of Physical Chemistry C</i> , 2009, 113, 7831-7837.	1.5	67
28	Hydrolysis of Sugars Using Magnetic Silica Nanoparticles with Sulfonic Acid Groups. <i>Chemistry Letters</i> , 2011, 40, 1195-1197.	0.7	65
29	Review on Mechanisms of Gas Permeation through Inorganic Membranes. <i>Journal of the Japan Petroleum Institute</i> , 2011, 54, 298-309.	0.4	64
30	Kinetic and FTIR studies of 2-methyltetrahydrofuran hydrodeoxygenation on Ni ₂ P/SiO ₂ . <i>Journal of Catalysis</i> , 2014, 318, 151-161.	3.1	61
31	Synthesis and Characterization of Mesoporous Ta ^W Oxides as Strong Solid Acid Catalysts. <i>Chemistry of Materials</i> , 2010, 22, 3072-3078.	3.2	59
32	Production of Phenol and Cresol from Guaiacol on Nickel Phosphide Catalysts Supported on Acidic Supports. <i>Topics in Catalysis</i> , 2015, 58, 201-210.	1.3	56
33	Effect of metal addition to Ru/TiO ₂ catalyst on selective CO methanation. <i>Catalysis Today</i> , 2014, 232, 16-21.	2.2	54
34	Utilization of hexagonal boron nitride as a solid acid-base bifunctional catalyst. <i>Journal of Catalysis</i> , 2017, 355, 176-184.	3.1	54
35	Sonication assisted rehydration of hydrotalcite catalyst for isomerization of glucose to fructose. <i>Journal of Molecular Catalysis A</i> , 2014, 393, 289-295.	4.8	53
36	Highly correlation of CO ₂ reduction selectivity and surface electron Accumulation: A case study of Au-MoS ₂ and Ag-MoS ₂ catalyst. <i>Applied Catalysis B: Environmental</i> , 2020, 271, 118931.	10.8	53

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37	Photoconductive Properties of Organic-Inorganic Hybrid Films of Layered Perovskite-Type Niobate. <i>Journal of Physical Chemistry B</i> , 2005, 109, 12410-12416.	1.2	52
38	Layered and nanosheet tantalum molybdate as strong solid acid catalysts. <i>Journal of Catalysis</i> , 2010, 270, 206-212.	3.1	44
39	Ligand and Ensemble Effects in Bimetallic NiFe Phosphide Catalysts for the Hydrodeoxygenation of 2-Methyltetrahydrofuran. <i>Topics in Catalysis</i> , 2012, 55, 969-980.	1.3	44
40	Promotion effect of coexistent hydromagnesite in a highly active solid base hydrotalcite catalyst for transesterifications of glycols into cyclic carbonates. <i>Catalysis Today</i> , 2012, 185, 241-246.	2.2	44
41	<i>In Situ</i> Time-Resolved XAFS Study on the Formation Mechanism of Cu Nanoparticles Using Poly(<i>N</i> -vinyl-2-pyrrolidone) as a Capping Agent. <i>Langmuir</i> , 2010, 26, 4473-4479.	1.6	42
42	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.	2.1	42
43	Permeation properties of silica-zirconia composite membranes supported on porous alumina substrates. <i>Journal of Membrane Science</i> , 2017, 526, 409-416.	4.1	39
44	Hydrodeoxygenation of gamma-valerolactone on transition metal phosphide catalysts. <i>Catalysis Science and Technology</i> , 2017, 7, 281-292.	2.1	39
45	CsH ₂ PO ₄ /Polyvinylidene Fluoride Composite Electrolytes for Intermediate Temperature Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2014, 161, F451-F457.	1.3	38
46	Tensile strain for band engineering of SrTiO ₃ for increasing photocatalytic activity to water splitting. <i>Applied Catalysis B: Environmental</i> , 2020, 278, 119292.	10.8	37
47	Alkylamine-silica hybrid membranes for carbon dioxide/methane separation. <i>Journal of Membrane Science</i> , 2015, 477, 161-171.	4.1	36
48	Intercalation-Controlled Cyclodehydration of Sorbitol in Water over Layered-Niobium-Molybdate Solid Acid. <i>ChemSusChem</i> , 2014, 7, 748-752.	3.6	35
49	Kinetic and Infrared Spectroscopy Study of Hydrodeoxygenation of 2-Methyltetrahydrofuran on a Nickel Phosphide Catalyst at Atmospheric Pressure. <i>ACS Catalysis</i> , 2016, 6, 7701-7709.	5.5	35
50	Evaluation of strong acid properties of layered HNbMoO ₆ and catalytic activity for Friedel-Crafts alkylation. <i>Catalysis Today</i> , 2009, 142, 267-271.	2.2	34
51	CsH ₂ PO ₄ /Epoxy Composite Electrolytes for Intermediate Temperature Fuel Cells. <i>Electrochimica Acta</i> , 2015, 169, 219-226.	2.6	34
52	Niobium Oxides as Cathode Electrocatalysts for Platinum-free Polymer Electrolyte Fuel Cells. <i>Chemistry Letters</i> , 2008, 37, 838-839.	0.7	33
53	Highly Dispersed Niobium Catalyst on Carbon Black by Polymerized Complex Method as PEFC Cathode Catalyst. <i>Journal of the Electrochemical Society</i> , 2009, 156, B811.	1.3	33
54	Mixed matrix membranes using SAPO-34/polyetherimide for carbon dioxide/methane separation. <i>Separation and Purification Technology</i> , 2015, 148, 38-48.	3.9	31

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55	Ammonia synthesis at intermediate temperatures in solid-state electrochemical cells using cesium hydrogen phosphate based electrolytes and noble metal catalysts. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 26843-26854.	3.8	31
56	Hydrodeoxygenation of δ^3 -valerolactone on bimetallic NiMo phosphide catalysts. <i>Journal of Catalysis</i> , 2017, 353, 141-151.	3.1	30
57	Genesis of Catalytically Active Gold Nanoparticles Supported on Hydrotalcite for Base-free Selective Oxidation of Glycerol in Water with Molecular Oxygen. <i>Chemistry Letters</i> , 2011, 40, 150-152.	0.7	29
58	Intercalation-induced Esterification over a Layered Transition Metal Oxide. <i>Topics in Catalysis</i> , 2009, 52, 592-596.	1.3	28
59	Effects of Transition-Metal Composition of Protonated, Layered Nonstoichiometric Oxides $H_{1-x}Nb_{1-x}Mo_{1+x}O_6$ on Heterogeneous Acid Catalysis. <i>Journal of Physical Chemistry C</i> , 2009, 113, 17421-17427.	1.5	28
60	Development of inorganic-organic hybrid membranes for carbon dioxide/methane separation. <i>Journal of Membrane Science</i> , 2014, 471, 402-411.	4.1	28
61	Sn-Beta Zeolite Catalysts with High Sn Contents Prepared from Sn-Si Mixed Oxide Composites. <i>ChemNanoMat</i> , 2015, 1, 155-158.	1.5	28
62	Synthesis and characterization of hydrogen selective silica membranes prepared by chemical vapor deposition of vinyltriethoxysilane. <i>Journal of Membrane Science</i> , 2018, 550, 1-8.	4.1	26
63	Oxidative Dehydrogenation of Ethane Using Ball-milled Hexagonal Boron Nitride. <i>Chemistry Letters</i> , 2018, 47, 1090-1093.	0.7	26
64	Efficient Epimerization of Aldoses Using Layered Niobium Molybdates. <i>ChemSusChem</i> , 2015, 8, 3769-3772.	3.6	24
65	Ammonia Synthesis by N_2 and Steam Electrolysis in Solid-State Cells at 220°C and Atmospheric Pressure. <i>Journal of the Electrochemical Society</i> , 2016, 163, E282-E287.	1.3	24
66	Effects of pressure, contact time, permeance, and selectivity in membrane reactors: The case of the dehydrogenation of ethane. <i>Separation and Purification Technology</i> , 2018, 194, 197-206.	3.9	24
67	Reactions of 2-Methyltetrahydropyran on Silica-Supported Nickel Phosphide in Comparison with 2-Methyltetrahydrofuran. <i>ACS Catalysis</i> , 2016, 6, 4549-4558.	5.5	23
68	Synthesis and characterization of a silica-alumina composite membrane and its application in a membrane reactor. <i>Separation and Purification Technology</i> , 2018, 195, 437-445.	3.9	23
69	Mechanochemical Decomposition of Crystalline Cellulose in the Presence of Protonated Layered Niobium Molybdate Solid Acid Catalyst. <i>ChemSusChem</i> , 2018, 11, 888-896.	3.6	22
70	Strain Effects on Oxygen Reduction Activity of Pr_2NiO_4 Caused by Gold Bulk Dispersion for Low Temperature Solid Oxide Fuel Cells. <i>ACS Applied Energy Materials</i> , 2019, 2, 1210-1220.	2.5	22
71	Infiltration of cerium into a NiO-YSZ tubular substrate for solid oxide reversible cells using a LSGM electrolyte film. <i>Journal of Materials Chemistry A</i> , 2021, 9, 1530-1540.	5.2	21
72	Active Sites in Ni ₂ P/USY Catalysts for the Hydrodeoxygenation of 2-Methyltetrahydrofuran. <i>Topics in Catalysis</i> , 2015, 58, 219-231.	1.3	20

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73	Monodisperse Iron Oxide Nanoparticles Embedded in Mg-Al Hydrotalcite as a Highly Active, Magnetically Separable, and Recyclable Solid Base Catalyst. <i>Bulletin of the Chemical Society of Japan</i> , 2010, 83, 846-851.	2.0	19
74	Photobiocatalytic H ₂ evolution of GaN:ZnO and [FeFe]-hydrogenase recombinant <i>Escherichia coli</i> . <i>Catalysis Science and Technology</i> , 2020, 10, 4042-4052.	2.1	18
75	Glucose to Value-added Chemicals: Anhydroglucose Formation by Selective Dehydration over Solid Acid Catalysts. <i>Chemistry Letters</i> , 2009, 38, 650-651.	0.7	17
76	Perfluorocarbon-based supported liquid membranes for O ₂ /N ₂ separation. <i>Separation and Purification Technology</i> , 2013, 116, 19-24.	3.9	17
77	Hydrogenation of 2,5-dimethylfuran on hexagonal-boron nitride- and silica-supported platinum catalysts. <i>Applied Catalysis A: General</i> , 2017, 548, 122-127.	2.2	17
78	Chemo-mechanical strain effects on band engineering of the TiO ₂ photocatalyst for increasing the water splitting activity. <i>Journal of Materials Chemistry A</i> , 2020, 8, 1335-1346.	5.2	17
79	Silica-supported chromia-titania catalysts for selective formation of lactic acid from a triose in water. <i>Applied Catalysis A: General</i> , 2019, 570, 200-208.	2.2	16
80	Synthesis and catalytic properties of porous Nb-Mo oxide solid acid. <i>Catalysis Today</i> , 2011, 164, 358-363.	2.2	15
81	Stability of CsH ₅ (PO ₄) ₂ -based composites at fixed temperatures and during heating-cooling cycles for solid-state intermediate temperature fuel cells. <i>Journal of Power Sources</i> , 2016, 306, 578-586.	4.0	15
82	Infrared spectroscopic studies of the hydrodeoxygenation of Î³-valerolactone on Ni ₂ P/MCM-41. <i>Catalysis Today</i> , 2019, 323, 54-61.	2.2	15
83	Comparison of phosphide catalysts prepared by temperature-programmed reduction and liquid-phase methods in the hydrodeoxygenation of 2-methylfuran. <i>Applied Catalysis A: General</i> , 2017, 548, 39-46.	2.2	14
84	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.	2.2	14
85	Hexafluorophosphate-Bis(trifluoromethanesulfonyl)imide anion co-intercalation for increased performance of dual-carbon battery using mixed salt electrolyte. <i>Journal of Power Sources</i> , 2020, 479, 229084.	4.0	14
86	How to scrutinize adsorbed intermediates observed by in situ spectroscopy: Analysis of Coverage Transients (ACT). <i>Journal of Catalysis</i> , 2021, 394, 273-283.	3.1	14
87	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
88	The optimal point within the Robeson upper boundary. <i>Chemical Engineering Research and Design</i> , 2015, 97, 109-119.	2.7	13
89	Production of 5-Hydroxymethylfurfural from Glucose in Water by Using Transition Metal-Oxide Nanosheet Aggregates. <i>Catalysts</i> , 2019, 9, 818.	1.6	13
90	The direct decomposition of NO into N ₂ and O ₂ over copper doped Ba ₃ Y ₄ O ₉ . <i>Catalysis Science and Technology</i> , 2020, 10, 2513-2522.	2.1	13

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91	CsH ₅ (PO ₄) ₂ doped glass membranes for intermediate temperature fuel cells. <i>Journal of Power Sources</i> , 2014, 272, 1018-1029.	4.0	12
92	Novel Nickel Catalysts Based on Spinel-Type Mixed Oxides for Methane and Propane Steam Reforming. <i>Journal of Chemical Engineering of Japan</i> , 2014, 47, 530-535.	0.3	12
93	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.	1.5	12
94	Gas Separation Silica Membranes Prepared by Chemical Vapor Deposition of Methyl-Substituted Silanes. <i>Membranes</i> , 2019, 9, 144.	1.4	12
95	Rational Design of Metal Oxide Solid Acids for Sugar Conversion. <i>Catalysts</i> , 2019, 9, 907.	1.6	12
96	Supported perfluorotributylamine liquid membrane for H ₂ /O ₂ separation. <i>Journal of Membrane Science</i> , 2013, 448, 262-269.	4.1	11
97	Perfluorooctanol-based liquid membranes for H ₂ /O ₂ separation. <i>Separation and Purification Technology</i> , 2014, 122, 431-439.	3.9	11
98	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.	1.8	11
99	Interfacial conduction mechanism of cesium hydrogen phosphate and silicon pyrophosphate composite electrolytes for intermediate-temperature fuel cells. <i>Solid State Ionics</i> , 2016, 285, 160-164.	1.3	10
100	Kinetic analysis of aqueous-phase cyclodehydration of 1,4-butanediol and erythritol over a layered niobium molybdate solid acid. <i>Catalysis Science and Technology</i> , 2016, 6, 791-799.	2.1	10
101	CsH ₅ (PO ₄) ₂ /quartz fiber thin membranes for intermediate temperature fuel cells and electrochemical synthesis of ammonia. <i>Journal of Applied Electrochemistry</i> , 2017, 47, 803-814.	1.5	10
102	Effects of post-thermal treatments of ball-milled boron nitrides on solid base catalysis. <i>Catalysis Today</i> , 2020, 352, 279-286.	2.2	10
103	Pyridyl-Anchored Type BODIPY Sensitizer-TiO ₂ Photocatalyst for Enhanced Visible Light-Driven Photocatalytic Hydrogen Production. <i>Catalysts</i> , 2020, 10, 535.	1.6	10
104	Enhancement of solid base activity for porous boron nitride catalysts by controlling active structure using post treatment. <i>Applied Catalysis A: General</i> , 2020, 608, 117843.	2.2	10
105	Synthesis of Silica Membranes by Chemical Vapor Deposition Using a Dimethyldimethoxysilane Precursor. <i>Membranes</i> , 2020, 10, 50.	1.4	10
106	Spark Plasma Sintering Treatment for Introduction of Oxygen Vacancy in Pt Dispersed SrTiO ₃ for Increasing Photocatalytic Water Splitting Activity. <i>ChemCatChem</i> , 2019, 11, 6270-6274.	1.8	9
107	Low-Temperature Activation of Methane with Nitric Oxide and Formation of Hydrogen Cyanide over an Alumina-Supported Platinum Catalyst. <i>ACS Catalysis</i> , 2021, 11, 14660-14668.	5.5	9
108	Effect of post-calcination thermal treatment on acid properties and pores structure of a mesoporous niobium-tungsten oxide. <i>Catalysis Today</i> , 2012, 192, 144-148.	2.2	8

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109	Supported fluorocarbon liquid membranes for hydrogen/oxygen separation. <i>Journal of Membrane Science</i> , 2016, 520, 272-280.	4.1	8
110	Fabrication and Evaluation of Trimethylmethoxysilane (TMMOS)-Derived Membranes for Gas Separation. <i>Membranes</i> , 2019, 9, 123.	1.4	8
111	SillÅ©nâ€“Aurivillius phase bismuth niobium oxychloride, Bi₄NbO₈Cl, as a new oxide-ion conductor. <i>Journal of Materials Chemistry A</i> , 2022, 10, 2550-2558.	5.2	8
112	Pr ₂ Ni _{0.71} Cu _{0.24} Ga _{0.05} O ₄ -Sm _{0.2} Ce _{0.8} O _{1.9} composite film as active cathodic layer for intermediate temperature solid oxide fuel cells. <i>Solid State Ionics</i> , 2018, 327, 59-63.	1.3	7
113	Z-scheme-type conductive-polymer-P3HT/KTa(Zr)O ₃ heterojunction composites for enhancing the photocatalytic activity of water splitting. <i>Applied Catalysis A: General</i> , 2020, 602, 117737.	2.2	7
114	Oxidative Conversion of Glucose to Formic Acid as a Renewable Hydrogen Source Using an Abundant Solid Base Catalyst. <i>ChemistryOpen</i> , 2021, 10, 954-959.	0.9	7
115	Ni-SDC Based Cermets for Direct Dry Reforming of Methane on SOFC Anode. <i>ECS Transactions</i> , 2017, 78, 1161-1167.	0.3	5
116	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.	1.3	5
117	Properties of Yttrium-Doped Barium Zirconate (BZY)-Hematite Mixed Ionic-Electronic Conductor. <i>ECS Transactions</i> , 2017, 78, 451-459.	0.3	4
118	Low Ni-Containing Cermet Anodes of Solid Oxide Fuel Cells with Size-Controlled Samarium-Doped Ceria Particles. <i>Journal of the Electrochemical Society</i> , 2019, 166, F716-F723.	1.3	4
119	Metal Phosphide-Based Novel Anodes for Intermediate Temperature Fuel Cells. <i>ECS Transactions</i> , 2016, 75, 931-937.	0.3	3
120	Investigation of Solid Oxide Electrolysis Cell Electrodes for Methane Synthesis. <i>ECS Transactions</i> , 2017, 78, 3247-3256.	0.3	3
121	Infiltration of Rare Earth Oxide into NiO-YSZ Anode Substrate for the High Performance Micro-Tubular SOFC Using LSGM Electrolyte Film. <i>ECS Transactions</i> , 2019, 91, 1807-1814.	0.3	3
122	Scandium and copper co-doping effect on stability and activity to the NO direct decomposition of Ba ₃ Y ₄ O ₉ . <i>Applied Catalysis A: General</i> , 2020, 602, 117743.	2.2	3
123	Porous Boron Nitride as a Weak Solid Base Catalyst. <i>ChemCatChem</i> , 2020, 12, 6033-6039.	1.8	3
124	Sequential-infiltration of Ce and Ni in NiO-YSZ fuel electrode for tubular type solid oxide reversible cells (SORC) using LaGaO ₃ electrolyte film. <i>Solid State Ionics</i> , 2022, 379, 115914.	1.3	3
125	Sulfonated Incompletely Carbonized Glucose as Strong Brønsted Acid Catalyst. <i>Studies in Surface Science and Catalysis</i> , 2007, 172, 405-408.	1.5	2
126	Fabrication of Low Ni-Containing SOFC Anode Using Mixed Ionic and Electronic Conductors. <i>ECS Transactions</i> , 2013, 57, 1201-1210.	0.3	1

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127	Decomposition of Methanol on Supported Pd-Au Catalyst for Recovery of Unused Waste Heat at Low Temperature. <i>Journal of the Japan Petroleum Institute</i> , 2019, 62, 296-302.	0.4	1
128	Mixing nitrogen-containing compounds for synthesis of porous boron nitride for improved porosity, surface functionality, and solid base catalytic activity. <i>Applied Catalysis A: General</i> , 2022, 638, 118635.	2.2	1
129	Exfoliated HNb ₃ O ₈ Nanosheets as a Strong Protonic Solid Acid.. <i>ChemInform</i> , 2005, 36, no.	0.1	0