Atsushi Takagaki

List of Publications by Year
in descending order

129	7,876	70961 41	51492 86
papers	citations	h-index	g-index

136	136	136	7379
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	SillÃ©nâ€“Aurivillius phase bismuth niobium oxychloride, Bi₄NbO₈Cl, as a new oxide-ion conductor. Journal of Materials Chemistry A, 2022, 10, 2550-2558.	5.2	8
2	Sequential-infiltration of Ce and Ni in NiO-YSZ fuel electrode for tubular type solid oxide reversible cells (SORC) using LaGaO3 electrolyte film. Solid State Ionics, 2022, 379, 115914.	1.3	3
3	Mixing nitrogen-containing compounds for synthesis of porous boron nitride for improved porosity, surface functionality, and solid base catalytic activity. Applied Catalysis A: General, 2022, 638, 118635.	2.2	1
4	Infiltration of cerium into a NiOâ€“YSZ tubular substrate for solid oxide reversible cells using a LSGM electrolyte film. Journal of Materials Chemistry A, 2021, 9, 1530-1540.	5.2	21
5	How to scrutinize adsorbed intermediates observed by in situ spectroscopy: Analysis of Coverage Transients (ACT). Journal of Catalysis, 2021, 394, 273-283.	3.1	14
6	Oxidative Conversion of Glucose to Formic Acid as a Renewable Hydrogen Source Using an Abundant Solid Base Catalyst. ChemistryOpen, 2021, 10, 954-959.	0.9	7
7	Low-Temperature Activation of Methane with Nitric Oxide and Formation of Hydrogen Cyanide over an Alumina-Supported Platinum Catalyst. ACS Catalysis, 2021, 11, 14660-14668.	5.5	9
8	Chemo-mechanical strain effects on band engineering of the TiO₂ photocatalyst for increasing the water splitting activity. Journal of Materials Chemistry A, 2020, 8, 1335-1346.	5.2	17
9	Effects of post-thermal treatments of ball-milled boron nitrides on solid base catalysis. Catalysis Today, 2020, 352, 279-286.	2.2	10
10	A New One-Pot Sequential Reduction-Deposition Method for the synthesis of Silica-supported NiPt and CuPt Bimetallic Catalysts. Applied Catalysis A: General, 2020, 591, 117371.	2.2	14
11	Pyridyl-Anchored Type BODIPY Sensitizer-TiO2 Photocatalyst for Enhanced Visible Light-Driven Photocatalytic Hydrogen Production. Catalysts, 2020, 10, 535.	1.6	10
12	Scandium and copper co-doping effect on stability and activity to the NO direct decomposition of Ba3Y4O9. Applied Catalysis A: General, 2020, 602, 117743.	2.2	3
13	Z-scheme-type conductive-polymer-P3HT/KTa(Zr)O3 heterojunction composites for enhancing the photocatalytic activity of water splitting. Applied Catalysis A: General, 2020, 602, 117737.	2.2	7
14	Enhancement of solid base activity for porous boron nitride catalysts by controlling active structure using post treatment. Applied Catalysis A: General, 2020, 608, 117843.	2.2	10
15	Hexafluorophosphate-Bis(trifluoromethanesulfonyl)imide anion co-intercalation for increased performance of dual-carbon battery using mixed salt electrolyte. Journal of Power Sources, 2020, 479, 229084.	4.0	14
16	Porous Boron Nitride as a Weak Solid Base Catalyst. ChemCatChem, 2020, 12, 6033-6039.	1.8	3
17	Photobiocatalytic H₂ evolution of GaN:ZnO and [FeFe]-hydrogenase recombinant Escherichia coli. Catalysis Science and Technology, 2020, 10, 4042-4052.	2.1	18
18	The direct decomposition of NO into N₂ and O₂ over copper doped Ba₃Y₄O₉. Catalysis Science and Technology, 2020, 10, 2513-2522.	2.1	13

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19	Tensile strain for band engineering of SrTiO3 for increasing photocatalytic activity to water splitting. Applied Catalysis B: Environmental, 2020, 278, 119292.	10.8	37
20	Synthesis of Silica Membranes by Chemical Vapor Deposition Using a Dimethyldimethoxysilane Precursor. Membranes, 2020, 10, 50.	1.4	10
21	Highly correlation of CO2 reduction selectivity and surface electron Accumulation: A case study of Au-MoS2 and Ag-MoS2 catalyst. Applied Catalysis B: Environmental, 2020, 271, 118931.	10.8	53
22	Calcium-Modified Ni-SDC Anodes in Solid Oxide Fuel Cells for Direct Dry Reforming of Methane. Journal of the Electrochemical Society, 2020, 167, 134512.	1.3	5
23	Infrared spectroscopic studies of the hydrodeoxygenation of Î³-valerolactone on Ni2P/MCM-41. Catalysis Today, 2019, 323, 54-61.	2.2	15
24	Combined In Situ XAFS and FTIR Study of the Hydrodeoxygenation Reaction of 2-Methyltetrahydrofuran on Ni₂P/SiO₂. Journal of Physical Chemistry C, 2019, 123, 7633-7643.	1.5	12
25	Low Ni-Containing Cermet Anodes of Solid Oxide Fuel Cells with Size-Controlled Samarium-Doped Ceria Particles. Journal of the Electrochemical Society, 2019, 166, F716-F723.	1.3	4
26	Spark Plasma Sintering Treatment for Introduction of Oxygen Vacancy in Pt Dispersed SrTiO₃ for Increasing Photocatalytic Water Splitting Activity. ChemCatChem, 2019, 11, 6270-6274.	1.8	9
27	Fabrication and Evaluation of Trimethylmethoxysilane (TMMOS)-Derived Membranes for Gas Separation. Membranes, 2019, 9, 123.	1.4	8
28	Infiltration of Rare Earth Oxide into NiO-YSZ Anode Substrate for the High Performance Micro-Tubular SOFC Using LSGM Electrolyte Film. ECS Transactions, 2019, 91, 1807-1814.	0.3	3
29	Production of 5-Hydroxymethylfurfural from Glucose in Water by Using Transition Metal-Oxide Nanosheet Aggregates. Catalysts, 2019, 9, 818.	1.6	13
30	Strain Effects on Oxygen Reduction Activity of Pr₂NiO₄ Caused by Gold Bulk Dispersion for Low Temperature Solid Oxide Fuel Cells. ACS Applied Energy Materials, 2019, 2, 1210-1220.	2.5	22
31	Gas Separation Silica Membranes Prepared by Chemical Vapor Deposition of Methyl-Substituted Silanes. Membranes, 2019, 9, 144.	1.4	12
32	Rational Design of Metal Oxide Solid Acids for Sugar Conversion. Catalysts, 2019, 9, 907.	1.6	12
33	Effects of ball-milling treatment on physicochemical properties and solid base activity of hexagonal boron nitrides. Catalysis Science and Technology, 2019, 9, 302-309.	2.1	42
34	Silica-supported chromia-titania catalysts for selective formation of lactic acid from a triose in water. Applied Catalysis A: General, 2019, 570, 200-208.	2.2	16
35	Decomposition of Methanol on Supported Pdâ€“Au Catalyst for Recovery of Unused Waste Heat at Low Temperature. Journal of the Japan Petroleum Institute, 2019, 62, 296-302.	0.4	1
36	Mechanochemical Decomposition of Crystalline Cellulose in the Presence of Protonated Layered Niobium Molybdate Solid Acid Catalyst. ChemSusChem, 2018, 11, 888-896.	3.6	22

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37	Synthesis and characterization of hydrogen selective silica membranes prepared by chemical vapor deposition of vinyltriethoxysilane. Journal of Membrane Science, 2018, 550, 1-8.	4.1	26
38	Synthesis and characterization of a silica-alumina composite membrane and its application in a membrane reactor. Separation and Purification Technology, 2018, 195, 437-445.	3.9	23
39	Effects of pressure, contact time, permeance, and selectivity in membrane reactors: The case of the dehydrogenation of ethane. Separation and Purification Technology, 2018, 194, 197-206.	3.9	24
40	Pr2Ni0.71Cu0.24Ga0.05O4-Sm0.2Ce0.8O1.9 composite film as active cathodic layer for intermediate temperature solid oxide fuel cells. Solid State Ionics, 2018, 327, 59-63.	1.3	7
41	Oxidative Dehydrogenation of Ethane Using Ball-milled Hexagonal Boron Nitride. Chemistry Letters, 2018, 47, 1090-1093.	0.7	26
42	Permeation properties of silica-zirconia composite membranes supported on porous alumina substrates. Journal of Membrane Science, 2017, 526, 409-416.	4.1	39
43	Interplay of Kinetics and Thermodynamics in Catalytic Steam Methane Reforming over Ni/MgO-SiO2. Industrial & Engineering Chemistry Research, 2017, 56, 1148-1158.	1.8	11
44	Comparison of phosphide catalysts prepared by temperature-programmed reduction and liquid-phase methods in the hydrodeoxygenation of 2-methylfuran. Applied Catalysis A: General, 2017, 548, 39-46.	2.2	14
45	Hydrodeoxygenation of gamma-valerolactone on transition metal phosphide catalysts. Catalysis Science and Technology, 2017, 7, 281-292.	2.1	39
46	Ammonia synthesis at intermediate temperatures in solid-state electrochemical cells using cesium hydrogen phosphate based electrolytes and noble metal catalysts. International Journal of Hydrogen Energy, 2017, 42, 26843-26854.	3.8	31
47	Utilization of hexagonal boron nitride as a solid acidâ€“base bifunctional catalyst. Journal of Catalysis, 2017, 355, 176-184.	3.1	54
48	Properties of Yttrium-Doped Barium Zirconate (BZY)-Hematite Mixed Ionic-Electronic Conductor. ECS Transactions, 2017, 78, 451-459.	0.3	4
49	Investigation of Solid Oxide Electrolysis Cell Electrodes for Methane Synthesis. ECS Transactions, 2017, 78, 3247-3256.	0.3	3
50	Ni-SDC Based Cermets for Direct Dry Reforming of Methane on SOFC Anode. ECS Transactions, 2017, 78, 1161-1167.	0.3	5
51	Hydrodeoxygenation of Î³-valerolactone on bimetallic NiMo phosphide catalysts. Journal of Catalysis, 2017, 353, 141-151.	3.1	30
52	Hydrogenation of 2,5-dimethylfuran on hexagonal-boron nitride- and silica-supported platinum catalysts. Applied Catalysis A: General, 2017, 548, 122-127.	2.2	17
53	CsH5(PO4)2/quartz fiber thin membranes for intermediate temperature fuel cells and electrochemical synthesis of ammonia. Journal of Applied Electrochemistry, 2017, 47, 803-814.	1.5	10
54	Supported fluorocarbon liquid membranes for hydrogen/oxygen separation. Journal of Membrane Science, 2016, 520, 272-280.	4.1	8

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55	Ammonia Synthesis by N₂and Steam Electrolysis in Solid-State Cells at 220Â°C and Atmospheric Pressure. Journal of the Electrochemical Society, 2016, 163, E282-E287.	1.3	24
56	Kinetic and Infrared Spectroscopy Study of Hydrodeoxygenation of 2-Methyltetrahydrofuran on a Nickel Phosphide Catalyst at Atmospheric Pressure. ACS Catalysis, 2016, 6, 7701-7709.	5.5	35
57	Metal Phosphide-Based Novel Anodes for Intermediate Temperature Fuel Cells. ECS Transactions, 2016, 75, 931-937.	0.3	3
58	Reactions of 2-Methyltetrahydropyran on Silica-Supported Nickel Phosphide in Comparison with 2-Methyltetrahydrofuran. ACS Catalysis, 2016, 6, 4549-4558.	5.5	23
59	Interfacial conduction mechanism of cesium hydrogen phosphate and silicon pyrophosphate composite electrolytes for intermediate-temperature fuel cells. Solid State Ionics, 2016, 285, 160-164.	1.3	10
60	Upgrading of pyrolysis bio-oil using nickel phosphide catalysts. Journal of Catalysis, 2016, 333, 115-126.	3.1	147
61	Stability of CsH5(PO4)2-based composites at fixed temperatures and during heatingâ€“cooling cycles for solid-state intermediate temperature fuel cells. Journal of Power Sources, 2016, 306, 578-586.	4.0	15
62	Kinetic analysis of aqueous-phase cyclodehydration of 1,4-butanediol and erythritol over a layered niobium molybdate solid acid. Catalysis Science and Technology, 2016, 6, 791-799.	2.1	10
63	Snâ€Beta Zeolite Catalysts with High Sn Contents Prepared from Snâ€“Si Mixed Oxide Composites. ChemNanoMat, 2015, 1, 155-158.	1.5	28
64	Efficient Epimerization of Aldoses Using Layered Niobium Molybdates. ChemSusChem, 2015, 8, 3769-3772.	3.6	24
65	The optimal point within the Robeson upper boundary. Chemical Engineering Research and Design, 2015, 97, 109-119.	2.7	13
66	Alkylamineâ€“silica hybrid membranes for carbon dioxide/methane separation. Journal of Membrane Science, 2015, 477, 161-171.	4.1	36
67	CsH2PO4/Epoxy Composite Electrolytes for Intermediate Temperature Fuel Cells. Electrochimica Acta, 2015, 169, 219-226.	2.6	34
68	Production of Phenol and Cresol from Guaiacol on Nickel Phosphide Catalysts Supported on Acidic Supports. Topics in Catalysis, 2015, 58, 201-210.	1.3	56
69	Active Sites in Ni2P/USY Catalysts for the Hydrodeoxygenation of 2-Methyltetrahydrofuran. Topics in Catalysis, 2015, 58, 219-231.	1.3	20
70	Mixed matrix membranes using SAPO-34/polyetherimide for carbon dioxide/methane separation. Separation and Purification Technology, 2015, 148, 38-48.	3.9	31
71	Development of inorganicâ€“organic hybrid membranes for carbon dioxide/methane separation. Journal of Membrane Science, 2014, 471, 402-411.	4.1	28
72	CsH₂PO₄/Polyvinylidene Fluoride Composite Electrolytes for Intermediate Temperature Fuel Cells. Journal of the Electrochemical Society, 2014, 161, F451-F457.	1.3	38

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73	Kinetic studies of hydrodeoxygenation of 2-methyltetrahydrofuran on a Ni2P/SiO2 catalyst at medium pressure. Journal of Catalysis, 2014, 311, 17-27.	3.1	112
74	Intercalationâ€Controlled Cyclodehydration of Sorbitol in Water over Layeredâ€Niobiumâ€Molybdate Solid Acid. ChemSusChem, 2014, 7, 748-752.	3.6	35
75	Solid Lewis acidity of boehmite Î³-AlO(OH) and its catalytic activity for transformation of sugars in water. RSC Advances, 2014, 4, 43785-43791.	1.7	69
76	Kinetic and FTIR studies of 2-methyltetrahydrofuran hydrodeoxygenation on Ni2P/SiO2. Journal of Catalysis, 2014, 318, 151-161.	3.1	61
77	Sonication assisted rehydration of hydrotalcite catalyst for isomerization of glucose to fructose. Journal of Molecular Catalysis A, 2014, 393, 289-295.	4.8	53
78	Perfluorooctanol-based liquid membranes for H2/O2 separation. Separation and Purification Technology, 2014, 122, 431-439.	3.9	11
79	CsH5(PO4)2 doped glass membranes for intermediate temperature fuel cells. Journal of Power Sources, 2014, 272, 1018-1029.	4.0	12
80	Effect of metal addition to Ru/TiO2 catalyst on selective CO methanation. Catalysis Today, 2014, 232, 16-21.	2.2	54
81	Novel Nickel Catalysts Based on Spinel-Type Mixed Oxides for Methane and Propane Steam Reforming. Journal of Chemical Engineering of Japan, 2014, 47, 530-535.	0.3	12
82	Study of Ru Ni/TiO2 catalysts for selective CO methanation. Applied Catalysis B: Environmental, 2013, 140-141, 258-264.	10.8	82
83	Supported perfluorotributylamine liquid membrane for H2/O2 separation. Journal of Membrane Science, 2013, 448, 262-269.	4.1	11
84	Characterization, synthesis and catalysis of hydrotalcite-related materials for highly efficient materials transformations. Green Chemistry, 2013, 15, 2026.	4.6	219
85	Perfluorocarbon-based supported liquid membranes for O2/N2 separation. Separation and Purification Technology, 2013, 116, 19-24.	3.9	17
86	Fabrication of Low Ni-Containing SOFC Anode Using Mixed Ionic and Electronic Conductors. ECS Transactions, 2013, 57, 1201-1210.	0.3	1
87	In situ observation of the dynamic behavior of Cuâ€“Alâ€“Ox catalysts for water gas shift reaction during daily start-up and shut-down (DSS)-like operation. Catalysis Science and Technology, 2012, 2, 1685.	2.1	13
88	Effect of post-calcination thermal treatment on acid properties and pores structure of a mesoporous niobiumâ€“tungsten oxide. Catalysis Today, 2012, 192, 144-148.	2.2	8
89	Studies of the synthesis of transition metal phosphides and their activity in the hydrodeoxygenation of a biofuel model compound. Journal of Catalysis, 2012, 294, 184-198.	3.1	214
90	Catalytic Transformations of Biomass-Derived Materials into Value-Added Chemicals. Catalysis Surveys From Asia, 2012, 16, 164-182.	1.0	89

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91	Ligand and Ensemble Effects in Bimetallic NiFe Phosphide Catalysts for the Hydrodeoxygenation of 2-Methyltetrahydrofuran. Topics in Catalysis, 2012, 55, 969-980.	1.3	44
92	Promotion effect of coexistent hydromagnesite in a highly active solid base hydrotalcite catalyst for transesterifications of glycols into cyclic carbonates. Catalysis Today, 2012, 185, 241-246.	2.2	44
93	Role of base in the formation of silver nanoparticles synthesized using sodium acrylate as a dual reducing and encapsulating agent. Physical Chemistry Chemical Physics, 2011, 13, 9335.	1.3	87
94	One-Pot Synthesis of 2,5-Diformylfuran from Carbohydrate Derivatives by Sulfonated Resin and Hydrotalcite-Supported Ruthenium Catalysts. ACS Catalysis, 2011, 1, 1562-1565.	5.5	233
95	Hydrotalcite-supported gold-nanoparticle-catalyzed highly efficient base-free aqueous oxidation of 5-hydroxymethylfurfural into 2,5-furandicarboxylic acid under atmospheric oxygen pressure. Green Chemistry, 2011, 13, 824.	4.6	389
96	Review on Mechanisms of Gas Permeation through Inorganic Membranes. Journal of the Japan Petroleum Institute, 2011, 54, 298-309.	0.4	64
97	Genesis of Catalytically Active Gold Nanoparticles Supported on Hydrotalcite for Base-free Selective Oxidation of Glycerol in Water with Molecular Oxygen. Chemistry Letters, 2011, 40, 150-152.	0.7	29
98	Hydrolysis of Sugars Using Magnetic Silica Nanoparticles with Sulfonic Acid Groups. Chemistry Letters, 2011, 40, 1195-1197.	0.7	65
99	Selective Oxidation of Glycerol by Using a Hydrotalciteâ€Supported Platinum Catalyst under Atmospheric Oxygen Pressure in Water. ChemSusChem, 2011, 4, 542-548.	3.6	100
100	Synthesis and catalytic properties of porous Nbâ€“Mo oxide solid acid. Catalysis Today, 2011, 164, 358-363.	2.2	15
101	One-pot Formation of Furfural from Xylose via Isomerization and Successive Dehydration Reactions over Heterogeneous Acid and Base Catalysts. Chemistry Letters, 2010, 39, 838-840.	0.7	78
102	Monodisperse Iron Oxide Nanoparticles Embedded in Mgâ€“Al Hydrotalcite as a Highly Active, Magnetically Separable, and Recyclable Solid Base Catalyst. Bulletin of the Chemical Society of Japan, 2010, 83, 846-851.	2.0	19
103	Layered and nanosheet tantalum molybdate as strong solid acid catalysts. Journal of Catalysis, 2010, 270, 206-212.	3.1	44
104	Highly Active Mesoporous Nbâ€“W Oxide Solidâ€Acid Catalyst. Angewandte Chemie - International Edition, 2010, 49, 1128-1132.	7.2	124
105	Syntheses of 5-hydroxymethylfurfural and levoglucosan by selective dehydration of glucose using solid acid and base catalysts. Applied Catalysis A: General, 2010, 383, 149-155.	2.2	177
106	Synthesis and Characterization of Mesoporous Taâ^'W Oxides as Strong Solid Acid Catalysts. Chemistry of Materials, 2010, 22, 3072-3078.	3.2	59
107	Synthesis of glycerol carbonate from glycerol and dialkyl carbonates using hydrotalcite as a reusable heterogeneous base catalyst. Green Chemistry, 2010, 12, 578.	4.6	170
108	In Situ Time-Resolved XAFS Study on the Formation Mechanism of Cu Nanoparticles Using Poly(N-vinyl-2-pyrrolidone) as a Capping Agent. Langmuir, 2010, 26, 4473-4479.	1.6	42

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109	Nanosheets as highly active solid acid catalysts for green chemical syntheses. Energy and Environmental Science, 2010, 3, 82-93.	15.6	167
110	Intercalation-induced Esterification over a Layered Transition Metal Oxide. Topics in Catalysis, 2009, 52, 592-596.	1.3	28
111	Evaluation of strong acid properties of layered HNbMoO6 and catalytic activity for Friedelâ€“Crafts alkylation. Catalysis Today, 2009, 142, 267-271.	2.2	34
112	Effects of Transition-Metal Composition of Protonated, Layered Nonstoichiometric Oxides H1â^'xNb1â^'xMo1+xO6 on Heterogeneous Acid Catalysis. Journal of Physical Chemistry C, 2009, 113, 17421-17427.	1.5	28
113	Characterization of HNbWO₆ and HTaWO₆ Metal Oxide Nanosheet Aggregates As Solid Acid Catalysts. Journal of Physical Chemistry C, 2009, 113, 7831-7837.	1.5	67
114	Highly Dispersed Niobium Catalyst on Carbon Black by Polymerized Complex Method as PEFC Cathode Catalyst. Journal of the Electrochemical Society, 2009, 156, B811.	1.3	33
115	A one-pot reaction for biorefinery: combination of solid acid and base catalysts for direct production of 5-hydroxymethylfurfural from saccharides. Chemical Communications, 2009, , 6276.	2.2	299
116	Glucose to Value-added Chemicals: Anhydroglucose Formation by Selective Dehydration over Solid Acid Catalysts. Chemistry Letters, 2009, 38, 650-651.	0.7	17
117	Efficient Utilization of Nanospace of Layered Transition Metal Oxide HNbMoO₆as a Strong, Water-Tolerant Solid Acid Catalyst. Journal of the American Chemical Society, 2008, 130, 7230-7231.	6.6	103
118	Glucose production from saccharides using layered transition metal oxide and exfoliated nanosheets as a water-tolerant solid acid catalyst. Chemical Communications, 2008, , 5363.	2.2	214
119	Niobium Oxides as Cathode Electrocatalysts for Platinum-free Polymer Electrolyte Fuel Cells. Chemistry Letters, 2008, 37, 838-839.	0.7	33
120	Sulfonated Incompletely Carbonized Glucose as Strong BrÃ¸nsted Acid Catalyst. Studies in Surface Science and Catalysis, 2007, 172, 405-408.	1.5	2
121	Acid-Catalyzed Reactions on Flexible Polycyclic Aromatic Carbon in Amorphous Carbon. Chemistry of Materials, 2006, 18, 3039-3045.	3.2	509
122	Esterification of higher fatty acids by a novel strong solid acid. Catalysis Today, 2006, 116, 157-161.	2.2	266
123	Biodiesel made with sugar catalyst. Nature, 2005, 438, 178-178.	13.7	735
124	Exfoliated HNb3O8 Nanosheets as a Strong Protonic Solid Acid.. ChemInform, 2005, 36, no.	0.1	0
125	Photoconductive Properties of Organicâ^'Inorganic Hybrid Films of Layered Perovskite-Type Niobate. Journal of Physical Chemistry B, 2005, 109, 12410-12416.	1.2	52
126	Exfoliated HNb3O8Nanosheets as a Strong Protonic Solid Acid. Chemistry of Materials, 2005, 17, 2487-2489.	3.2	117

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127	A Carbon Material as a Strong Protonic Acid. Angewandte Chemie - International Edition, 2004, 43, 2955-2958.	7.2	519
128	Titanium Niobate and Titanium Tantalate Nanosheets as Strong Solid Acid Catalysts. Journal of Physical Chemistry B, 2004, 108, 11549-11555.	1.2	99
129	Exfoliated Nanosheets as a New Strong Solid Acid Catalyst. Journal of the American Chemical Society, 2003, 125, 5479-5485.	6.6	247