

Michikazu Hara

List of Publications by Year in descending order

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times ranked

18818
citing authors

#	ARTICLE	IF	CITATIONS
1	GaN:ZnO Solid Solution as a Photocatalyst for Visible-Light-Driven Overall Water Splitting. Journal of the American Chemical Society, 2005, 127, 8286-8287.	13.7	1,317
2	Ammonia synthesis using a stable electride as an electron donor and reversible hydrogen store. Nature Chemistry, 2012, 4, 934-940.	13.6	1,085
3	Hydrolysis of Cellulose by Amorphous Carbon Bearing SO ₃ H, COOH, and OH Groups. Journal of the American Chemical Society, 2008, 130, 12787-12793.	13.7	941
4	Conduction and Valence Band Positions of Ta ₂ O ₅ , TaON, and Ta ₃ N ₅ by UPS and Electrochemical Methods. Journal of Physical Chemistry B, 2003, 107, 1798-1803.	2.6	917
5	Oxysulfide Sm ₂ Ti ₂ S ₂ O ₅ as a Stable Photocatalyst for Water Oxidation and Reduction under Visible Light Irradiation (λ = 650 nm). Journal of the American Chemical Society, 2002, 124, 13547-13553.	13.7	890
6	Cu ₂ O as a photocatalyst for overall water splitting under visible light irradiation. Chemical Communications, 1998, , 357-358.	4.1	747
7	Biodiesel made with sugar catalyst. Nature, 2005, 438, 178-178.	27.8	735
8	An oxynitride, TaON, as an efficient water oxidation photocatalyst under visible light irradiation (λ = 410 nm). Journal of Physical Chemistry C, 2007, 111, 585-588.	4.1	585
9	Electride support boosts nitrogen dissociation over ruthenium catalyst and shifts the bottleneck in ammonia synthesis. Nature Communications, 2015, 6, 6731.	12.8	529
10	A Carbon Material as a Strong Protonic Acid. Angewandte Chemie - International Edition, 2004, 43, 2955-2958.	13.8	519
11	Acid-Catalyzed Reactions on Flexible Polycyclic Aromatic Carbon in Amorphous Carbon. Chemistry of Materials, 2006, 18, 3039-3045.	6.7	509
12	Nb ₂ O ₅ ·nH ₂ O as a Heterogeneous Catalyst with Water-Tolerant Lewis Acid Sites. Journal of the American Chemical Society, 2011, 133, 4224-4227.	13.7	480
13	Photoreactions on LaTiO ₂ N under Visible Light Irradiation. Journal of Physical Chemistry A, 2002, 106, 6750-6753.	2.5	443
14	Photocatalytic water reduction under visible light on a novel ZnIn ₂ S ₄ catalyst synthesized by hydrothermal method. Chemical Communications, 2003, , 2142.	4.1	443
15	Structural and Kinetic Characterization of Lithium Intercalation into Carbon Anodes for Secondary Lithium Batteries. Journal of the Electrochemical Society, 1995, 142, 371-379.	2.9	410
16	RuO ₂ -Loaded β -Ge ₃ N ₄ as a Non-Oxide Photocatalyst for Overall Water Splitting. Journal of the American Chemical Society, 2005, 127, 4150-4151.	13.7	388
17	Overall Water Splitting on (Ga _{1-x} Zn _x)(N _{1-x} O _x) Solid Solution Photocatalyst: A Relationship between Physical Properties and Photocatalytic Activity. Journal of Physical Chemistry B, 2005, 109, 20504-20510.	2.6	384
18	Ta ₃ N ₅ as a Novel Visible Light-Driven Photocatalyst (λ < 600 nm). Chemistry Letters, 2002, 31, 736-737.	1.3	377

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19	Amorphous Carbon with SO ₃ H Groups as a Solid Brønsted Acid Catalyst. ACS Catalysis, 2012, 2, 1296-1304.	11.2	367
20	Photocatalytic Decomposition of Water on Spontaneously Hydrated Layered Perovskites. Chemistry of Materials, 1997, 9, 1063-1064.	6.7	351
21	TaON and Ta ₃ N ₅ as new visible light driven photocatalysts. Catalysis Today, 2003, 78, 555-560.	4.4	339
22	Photo- and Mechano-Catalytic Overall Water Splitting Reactions to Form Hydrogen and Oxygen on Heterogeneous Catalysts. Bulletin of the Chemical Society of Japan, 2000, 73, 1307-1331.	3.2	316
23	Effect of MnO ₂ Crystal Structure on Aerobic Oxidation of 5-Hydroxymethylfurfural to 2,5-Furandicarboxylic Acid. Journal of the American Chemical Society, 2019, 141, 890-900.	13.7	299
24	LaTiO ₂ N as a Visible-Light (λ%600 nm)-Driven Photocatalyst (2). Journal of Physical Chemistry B, 2003, 107, 791-797.	2.6	288
25	Adsorption-Enhanced Hydrolysis of Î ² -1,4-Glucan on Graphene-Based Amorphous Carbon Bearing SO ₃ H, COOH, and OH Groups. Langmuir, 2009, 25, 5068-5075.	3.5	274
26	Photocatalytic Water Oxidation in a Buffered Tris(2,2â€-bipyridyl)ruthenium Complex-Colloidal IrO ₂ System. Journal of Physical Chemistry A, 2000, 104, 5275-5280.	2.5	273
27	Esterification of higher fatty acids by a novel strong solid acid. Catalysis Today, 2006, 116, 157-161.	4.4	266
28	Zinc Germanium Oxynitride as a Photocatalyst for Overall Water Splitting under Visible Light. Journal of Physical Chemistry C, 2007, 111, 1042-1048.	3.1	262
29	Biomass conversion by a solid acid catalyst. Energy and Environmental Science, 2010, 3, 601.	30.8	249
30	Exfoliated Nanosheets as a New Strong Solid Acid Catalyst. Journal of the American Chemical Society, 2003, 125, 5479-5485.	13.7	247
31	Electronic Effect of Ruthenium Nanoparticles on Efficient Reductive Amination of Carbonyl Compounds. Journal of the American Chemical Society, 2017, 139, 11493-11499.	13.7	244
32	Heterogeneous photocatalytic cleavage of water. Journal of Materials Chemistry, 2010, 20, 627-641.	6.7	234
33	Recent progress of photocatalysts for overall water splitting. Catalysis Today, 1998, 44, 17-26.	4.4	230
34	A highly active photocatalyst for overall water splitting with a hydrated layered perovskite structure. Journal of Photochemistry and Photobiology A: Chemistry, 1997, 106, 45-49.	3.9	204
35	Essential role of hydride ion in ruthenium-based ammonia synthesis catalysts. Chemical Science, 2016, 7, 4036-4043.	7.4	195
36	Recent progress of visible-light-driven heterogeneous photocatalysts for overall water splitting. Solid State Ionics, 2004, 172, 591-595.	2.7	194

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37	Ru-Loaded C12A7:e ⁺ Electride as a Catalyst for Ammonia Synthesis. ACS Catalysis, 2017, 7, 2313-2324.	11.2	173
38	Oxysulfides Ln ₂ Ti ₂ S ₂ O ₅ as Stable Photocatalysts for Water Oxidation and Reduction under Visible-Light Irradiation. Journal of Physical Chemistry B, 2004, 108, 2637-2642.	2.6	169
39	Nanosheets as highly active solid acid catalysts for green chemical syntheses. Energy and Environmental Science, 2010, 3, 82-93.	30.8	167
40	Unusual enhancement of H ₂ evolution by Ru on TaON photocatalyst under visible light irradiation. Chemical Communications, 2003, , 3000.	4.1	166
41	Preparation of K ₂ La ₂ Ti ₃ O ₁₀ by Polymerized Complex Method and Photocatalytic Decomposition of Water. Chemistry of Materials, 1998, 10, 72-77.	6.7	161
42	Protonated Titanate Nanotubes as Solid Acid Catalyst. Journal of the American Chemical Society, 2010, 132, 6622-6623.	13.7	159
43	Water reduction and oxidation on Pt ⁺ /Ru/Y ₂ Ta ₂ O ₅ N ₂ catalyst under visible light irradiation. Chemical Communications, 2004, , 2192-2193.	4.1	157
44	Hydrolysis of Cellulose by a Solid Acid Catalyst under Optimal Reaction Conditions. Journal of Physical Chemistry C, 2009, 113, 3181-3188.	3.1	156
45	Protonated Titanate Nanotubes with Lewis and Brønsted Acidity: Relationship between Nanotube Structure and Catalytic Activity. Chemistry of Materials, 2013, 25, 385-393.	6.7	153
46	A Stable and Highly Active Hybrid Mesoporous Solid Acid Catalyst. Advanced Materials, 2005, 17, 1839-1842.	21.0	151
47	Ammonia decomposition by ruthenium nanoparticles loaded on inorganic electride C12A7:e ⁺ . Chemical Science, 2013, 4, 3124.	7.4	148
48	Electrochemical Behavior of Thin Ta ₃ N ₅ Semiconductor Film. Journal of Physical Chemistry B, 2004, 108, 11049-11053.	2.6	146
49	Self-Organized Ruthenium ⁺ Barium Core ⁺ Shell Nanoparticles on a Mesoporous Calcium Amide Matrix for Efficient Low-Temperature Ammonia Synthesis. Angewandte Chemie - International Edition, 2018, 57, 2648-2652.	13.8	144
50	Mechano-catalytic overall water splitting. Chemical Communications, 1998, , 2185-2186.	4.1	139
51	Sulfur-substituted and zinc-doped In(OH) ₃ : A new class of catalyst for photocatalytic H ₂ production from water under visible light illumination. Journal of Catalysis, 2006, 237, 322-329.	6.2	138
52	Amorphous Carbon Bearing Sulfonic Acid Groups in Mesoporous Silica as a Selective Catalyst. Chemistry of Materials, 2009, 21, 186-193.	6.7	136
53	Heterogeneously Catalyzed Aerobic Oxidation of 5-Hydroxymethylfurfural to 2,5-Furandicarboxylic Acid with MnO ₂ . ChemSusChem, 2017, 10, 654-658.	6.8	134
54	Ti _x O _y F _z as a Stable Photocatalyst for Water Oxidation in Visible Light (<570 nm). Chemistry Letters, 2003, 32, 196-197.	1.3	133

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55	Synthesis and acid catalysis of cellulose-derived carbon-based solid acid. <i>Solid State Sciences</i> , 2010, 12, 1029-1034.	3.2	133
56	Efficient and Stable Ammonia Synthesis by Self-Organized Flat Ru Nanoparticles on Calcium Amide. <i>ACS Catalysis</i> , 2016, 6, 7577-7584.	11.2	129
57	Preparation of a Sulfonated Porous Carbon Catalyst with High Specific Surface Area. <i>Catalysis Letters</i> , 2009, 131, 242-249.	2.6	127
58	Biodiesel Production by Amorphous Carbon Bearing SO ₃ H, COOH and Phenolic OH Groups, a Solid Brønsted Acid Catalyst. <i>Topics in Catalysis</i> , 2010, 53, 805-810.	2.8	127
59	Tantalum Oxynitride for a Novel Cathode of PEFC. <i>Electrochemical and Solid-State Letters</i> , 2005, 8, A201.	2.2	126
60	Synergistic Catalysis by Lewis Acid and Base Sites on ZrO ₂ for Meerwein-Ponndorf-Verley Reduction. <i>Journal of Physical Chemistry C</i> , 2015, 119, 26540-26546.	3.1	122
61	Preparation of Porous Niobium Oxides by Soft-Chemical Process and Their Photocatalytic Activity. <i>Chemistry of Materials</i> , 1997, 9, 2179-2184.	6.7	121
62	Ta ₃ N ₅ and TaON Thin Films on Ta Foil: Surface Composition and Stability. <i>Journal of Physical Chemistry B</i> , 2003, 107, 13441-13445.	2.6	121
63	Photocatalytic Decomposition of Acetaldehyde under Visible Light Irradiation over La ³⁺ and N Co-doped TiO ₂ . <i>Chemistry Letters</i> , 2003, 32, 1156-1157.	1.3	118
64	Exfoliated HNb ₃ O ₈ Nanosheets as a Strong Protonic Solid Acid. <i>Chemistry of Materials</i> , 2005, 17, 2487-2489.	6.7	117
65	Environmentally Benign Production of Biodiesel Using Heterogeneous Catalysts. <i>ChemSusChem</i> , 2009, 2, 129-135.	6.8	116
66	Modification of (Zn _{1-x} Ge _x)N ₂ O _x Solid Solution as a Visible Light Driven Photocatalyst for Overall Water Splitting. <i>Chemistry of Materials</i> , 2007, 19, 2120-2127.	6.7	115
67	Rechargeable Lithium-Ion Cells Using Graphitized Mesophase-Pitch-Based Carbon Fiber Anodes. <i>Journal of the Electrochemical Society</i> , 1995, 142, 2564-2571.	2.9	114
68	Structure and Catalysis of Cellulose-Derived Amorphous Carbon Bearing SO ₃ H Groups. <i>ChemSusChem</i> , 2011, 4, 778-784.	6.8	111
69	Recent progress in the development of solid catalysts for biomass conversion into high value-added chemicals. <i>Science and Technology of Advanced Materials</i> , 2015, 16, 034903.	6.1	104
70	Photocatalytic reduction of water by TaON under visible light irradiation. <i>Catalysis Today</i> , 2004, 90, 313-317.	4.4	103
71	Solid solution for catalytic ammonia synthesis from nitrogen and hydrogen gases at 50 °C. <i>Nature Communications</i> , 2020, 11, 2001.	12.8	103
72	Titanium Niobate and Titanium Tantalate Nanosheets as Strong Solid Acid Catalysts. <i>Journal of Physical Chemistry B</i> , 2004, 108, 11549-11555.	2.6	99

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73	Titania as an Early Transition Metal Oxide with a High Density of Lewis Acid Sites Workable in Water. Journal of Physical Chemistry C, 2013, 117, 16028-16033.	3.1	95
74	Mechano-catalysis—a novel method for overall water splitting. Physical Chemistry Chemical Physics, 1999, 1, 4485-4491.	2.8	94
75	Effect of Chromium Addition for Photocatalytic Overall Water Splitting on Ni—K ₂ La ₂ Ti ₃ O ₁₀ . Journal of Catalysis, 2000, 196, 362-365.	6.2	92
76	Novel Synthesis and Photocatalytic Activity of Oxysulfide Sm ₂ Ti ₂ S ₂ O ₅ . Chemistry of Materials, 2003, 15, 4442-4446.	6.7	92
77	Porous Single-Crystalline TaON and Ta ₃ N ₅ Particles. Chemistry of Materials, 2004, 16, 1603-1605.	6.7	92
78	A high performance catalyst of shape-specific ruthenium nanoparticles for production of primary amines by reductive amination of carbonyl compounds. Chemical Science, 2018, 9, 5949-5956.	7.4	92
79	Effect of the particle size for photocatalytic decomposition of water on Ni-loaded K ₄ Nb ₆ O ₁₇ . Microporous Materials, 1997, 9, 253-258.	1.6	91
80	Photocatalytic Oxidation of Water by Silica-Supported Tris(4,4'-dialkyl-2,2'-bipyridyl)ruthenium Polymeric Sensitizers and Colloidal Iridium Oxide. Chemistry of Materials, 2001, 13, 4668-4675.	6.7	91
81	Crystallization of an Ordered Mesoporous Nb—Ta Oxide. Angewandte Chemie - International Edition, 2003, 42, 2382-2385.	13.8	90
82	Highly Dispersed Ru on Electride [Ca ₂₄ Al ₂₈ O ₆₄] ⁴⁺ (e ⁻) ₄ as a Catalyst for Ammonia Synthesis. ACS Catalysis, 2014, 4, 674-680.	11.2	90
83	Surface State Analysis of Photobrightening in CdSe Nanocrystal Thin Films. Journal of Physical Chemistry B, 2003, 107, 12566-12568.	2.6	86
84	Visible-light-driven photocatalytic behavior of tantalum-oxynitride and nitride. Research on Chemical Intermediates, 2007, 33, 13-25.	2.7	86
85	Fabrication of SrTiO ₃ exposing characteristic facets using molten salt flux and improvement of photocatalytic activity for water splitting. Catalysis Science and Technology, 2013, 3, 1733.	4.1	86
86	Selective glucose transformation by titania as a heterogeneous Lewis acid catalyst. Journal of Molecular Catalysis A, 2014, 388-389, 100-105.	4.8	83
87	Structure and Acid Catalysis of Mesoporous Nb ₂ O ₅ —H ₂ O. Chemistry of Materials, 2010, 22, 3332-3339.	6.7	82
88	Formation of 5-(Hydroxymethyl)furfural by Stepwise Dehydration over TiO ₂ with Water-Tolerant Lewis Acid Sites. Journal of Physical Chemistry C, 2015, 119, 17117-17125.	3.1	82
89	SO ₃ H-bearing mesoporous carbon with highly selective catalysis. Microporous and Mesoporous Materials, 2011, 143, 443-450.	4.4	79
90	Metal ion and N co-doped TiO ₂ as a visible-light photocatalyst. Journal of Materials Research, 2004, 19, 2100-2108.	2.6	77

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91	Mechanism Switching of Ammonia Synthesis Over Ru-Loaded Electride Catalyst at Metal-Insulator Transition. <i>Journal of the American Chemical Society</i> , 2015, 137, 14517-14524.	13.7	77
92	(Oxy)nitrides as New Photocatalysts for Water Splitting under Visible Light Irradiation. <i>Electrochemistry</i> , 2002, 70, 463-465.	1.4	74
93	Wavelength-Programmable Organic Distributed-Feedback Laser Based on a Photoassisted Polymer-Migration System. <i>Advanced Materials</i> , 2005, 17, 1630-1633.	21.0	74
94	New aspects of heterogeneous photocatalysts for water decomposition. <i>Korean Journal of Chemical Engineering</i> , 2001, 18, 862-866.	2.7	71
95	A bifunctional cerium phosphate catalyst for chemoselective acetalization. <i>Chemical Science</i> , 2017, 8, 3146-3153.	7.4	68
96	Direct Activation of Cobalt Catalyst by $12\text{CaO} \cdot 7\text{Al}_2\text{O}_3$ Electride for Ammonia Synthesis. <i>ACS Catalysis</i> , 2019, 9, 1670-1679.	11.2	68
97	Lanthanum-Indium Oxysulfide as a Visible Light Driven Photocatalyst for Water Splitting. <i>Chemistry Letters</i> , 2007, 36, 854-855.	1.3	66
98	Control of valence band potential and photocatalytic properties of $\text{Na}_x\text{La}_{1-x}\text{TaO}_4 + 2x\text{N}_2\text{O}$ oxynitride solid solutions. <i>Journal of Materials Chemistry A</i> , 2013, 1, 3667.	10.3	65
99	Synthesis, Mesostructure, and Photocatalysis of a Highly Ordered and Thermally Stable Mesoporous Mg and Ta Mixed Oxide. <i>Chemistry of Materials</i> , 2004, 16, 4304-4310.	6.7	62
100	$\text{Ba}_{1.0}\text{Co}_{0.7}\text{Fe}_{0.2}\text{Nb}_{0.1}\text{O}_{3-\delta}$ Dense Ceramic as an Oxygen Permeable Membrane for Partial Oxidation of Methane to Synthesis Gas. <i>Chemistry Letters</i> , 2006, 35, 1326-1327.	1.3	62
101	Photocatalytic water oxidation by Nafion-stabilized iridium oxide colloids. <i>Chemical Communications</i> , 2000, , 1903-1904.	4.1	61
102	Preparation of Thin Films of a Layered Titanate by the Exfoliation of $\text{Cs}_x\text{Ti}_{(2-x/4)}\text{O}_4$. <i>Chemistry of Materials</i> , 1998, 10, 329-333.	6.7	60
103	sp^3 -linked Amorphous Carbon with Sulfonic Acid Groups as a Heterogeneous Acid Catalyst. <i>ChemSusChem</i> , 2012, 5, 1841-1846.	6.8	60
104	Enhanced Catalytic Ammonia Synthesis with Transformed BaO. <i>ACS Catalysis</i> , 2018, 8, 10977-10984.	11.2	59
105	Preparation of porous niobium oxide by the exfoliation of $\text{K}_4\text{Nb}_6\text{O}_{17}$ and its photocatalytic activity. <i>Journal of Materials Research</i> , 1998, 13, 861-865.	2.6	58
106	Preparation of a high active photocatalyst, $\text{K}_2\text{La}_2\text{Ti}_3\text{O}_{10}$, by polymerized complex method and its photocatalytic activity of water splitting. <i>Journal of Materials Research</i> , 1998, 13, 852-855.	2.6	55
107	Low-Temperature Reductive Amination of Carbonyl Compounds over Ru Deposited on $\text{Nb}_2\text{O}_5 \cdot n\text{H}_2\text{O}$. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 4692-4698.	6.7	55
108	Formation and desorption of aluminum hydride from hydrogen adsorbed aluminum surfaces. <i>Surface Science</i> , 1991, 242, 459-463.	1.9	54

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109	Preparation and crystallization characteristics of mesoporous TiO ₂ and mixed oxides. Journal of Materials Chemistry, 2005, 15, 2035.	6.7	53
110	Preparation and Characterization of Sodium Tantalate Thin Films by Hydrothermal Electrochemical Synthesis. Chemistry of Materials, 2005, 17, 2422-2426.	6.7	53
111	Synthesis of NiO-loaded KTiNbO ₅ photocatalysts by a novel polymerizable complex method. Journal of Alloys and Compounds, 1999, 285, 77-81.	5.5	52
112	Preparation of Ion-Exchangeable Thin Films of Layered Niobate K ₄ Nb ₆ O ₁₇ . Chemistry of Materials, 1998, 10, 1647-1651.	6.7	51
113	Structural and Electrochemical Properties of Lithiated Polymerized Aromatics. Anodes for Lithium-Ion Cells. The Journal of Physical Chemistry, 1995, 99, 16338-16343.	2.9	50
114	Hydrothermal Synthesis of Fine NaTaO ₃ Powder as a Highly Efficient Photocatalyst for Overall Water Splitting. Bulletin of the Chemical Society of Japan, 2007, 80, 423-428.	3.2	50
115	Heterogeneously Catalyzed Aerobic Oxidation of Sulfides with a BaRuO ₃ Nanoperovskite. ACS Applied Materials & Interfaces, 2018, 10, 23792-23801.	8.0	50
116	A Study of Mechano-Catalysts for Overall Water Splitting. Journal of Physical Chemistry B, 2000, 104, 780-785.	2.6	49
117	A Combined Catalyst of Pt Nanoparticles and TiO ₂ with Water-Tolerant Lewis Acid Sites for One-Pot Conversion of Glycerol to Lactic Acid. ChemCatChem, 2016, 8, 1094-1099.	3.7	49
118	Dioxygen Activation by a Hexagonal SrMnO ₃ Perovskite Catalyst for Aerobic Liquid-Phase Oxidation. ChemCatChem, 2016, 8, 3247-3253.	3.7	49
119	Effect of 10 MPa Ammonia Treatment on the Activity of Visible Light Responsive Ta ₃ N ₅ Photocatalyst. Chemistry Letters, 2006, 35, 352-353.	1.3	48
120	Oxygen-permeable Membranes of Ba _{1.0} Co _{0.7} Fe _{0.2} Nb _{0.1} O ₃ for Preparation of Synthesis Gas from Methane by Partial Oxidation. Chemistry Letters, 2006, 35, 968-969.	1.3	48
121	Development of highly active SO ₃ H-modified hybrid mesoporous catalyst. Catalysis Today, 2006, 116, 151-156.	4.4	47
122	Folic acid-conjugated magnetic mesoporous silica nanoparticles loaded with quercetin: a theranostic approach for cancer management. RSC Advances, 2020, 10, 23148-23164.	3.6	47
123	Effect of High-Pressure Ammonia Treatment on the Activity of Ge ₃ N ₄ Photocatalyst for Overall Water Splitting. Journal of Physical Chemistry B, 2006, 110, 17563-17569.	2.6	46
124	Desorption of aluminum hydride from hydrogen adsorbed aluminum(111) surface. The Journal of Physical Chemistry, 1991, 95, 6-7.	2.9	45
125	Mechano-catalytic overall water splitting (II) nafion-deposited Cu ₂ O. Applied Catalysis A: General, 2000, 190, 35-42.	4.3	45
126	Lewis Acid Catalysis of TiO ₄ Tetrahedra on Mesoporous Silica in Water. ACS Catalysis, 2014, 4, 1198-1204.	11.2	45

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127	Template-Free Synthesis of Mesoporous MnO_2 Nanoparticles: Structure, Formation Mechanism, and Catalytic Properties. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 36004-36013.	8.0	45
128	Environmentally Benign Production of Chemicals and Energy Using a Carbon-Based Strong Solid Acid. <i>Journal of the American Ceramic Society</i> , 2007, 90, 3725-3734.	3.8	44
129	Amino Acid-Aided Synthesis of a Hexagonal SrMnO_3 Nanoperovskite Catalyst for Aerobic Oxidation. <i>ACS Omega</i> , 2017, 2, 1608-1616.	3.5	44
130	Ag nanoparticle-decorated, ordered mesoporous silica as an efficient electrocatalyst for alkaline water oxidation reaction. <i>Dalton Transactions</i> , 2019, 48, 2220-2227.	3.3	40
131	Control of nitrogen activation ability by Co-Mo bimetallic nanoparticle catalysts prepared via sodium naphthalenide-reduction. <i>Journal of Catalysis</i> , 2018, 364, 31-39.	6.2	38
132	Mechano-catalytic overall water splitting on some mixed oxides. <i>Catalysis Today</i> , 2000, 63, 175-181.	4.4	37
133	Ammonia synthesis over Co-Mo alloy nanoparticle catalyst prepared via sodium naphthalenide-driven reduction. <i>Chemical Communications</i> , 2016, 52, 14369-14372.	4.1	37
134	Synthesis of Highly Ordered Hybrid Mesoporous Material Containing Etenylene ($\text{CH}=\text{CH}$) within the Silicate Framework. <i>Chemistry Letters</i> , 2003, 32, 950-951.	1.3	36
135	Starch saccharification by carbon-based solid acid catalyst. <i>Solid State Sciences</i> , 2010, 12, 1018-1023.	3.2	35
136	Mechano-catalytic overall water-splitting into hydrogen and oxygen on some metal oxides. <i>Applied Energy</i> , 2000, 67, 159-179.	10.1	34
137	Effect of preparation conditions on the structural and acid catalytic properties of protonated titanate nanotubes. <i>Journal of Materials Chemistry A</i> , 2013, 1, 12768.	10.3	34
138	Large Oblate Hemispheroidal Ruthenium Particles Supported on Calcium Amide as Efficient Catalysts for Ammonia Decomposition. <i>Chemistry - A European Journal</i> , 2018, 24, 7976-7984.	3.3	34
139	Slow Reactant-Water Exchange and High Catalytic Performance of Water-Tolerant Lewis Acids. <i>Chemistry - A European Journal</i> , 2014, 20, 8068-8075.	3.3	33
140	Anchoring Bond between Ru and N Atoms of $\text{Ru/Ca}_2\text{NH}$ Catalyst: Crucial for the High Ammonia Synthesis Activity. <i>Journal of Physical Chemistry C</i> , 2017, 121, 20900-20904.	3.1	33
141	Effects of ruthenium hydride species on primary amine synthesis by direct amination of alcohols over a heterogeneous Ru catalyst. <i>Chemical Science</i> , 2020, 11, 9884-9890.	7.4	31
142	A zeolitic vanadotungstate family with structural diversity and ultrahigh porosity for catalysis. <i>Nature Communications</i> , 2018, 9, 3789.	12.8	30
143	Liquid-phase oxidation of alkanes with molecular oxygen catalyzed by high valent iron-based perovskite. <i>Chemical Communications</i> , 2018, 54, 6772-6775.	4.1	29
144	Electron Donation Enhanced CO Oxidation over Ru-Loaded $12\text{CaO}\cdot 7\text{Al}_2\text{O}_3$ Electride Catalyst. <i>Journal of Physical Chemistry C</i> , 2015, 119, 11725-11731.	3.1	28

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145	Synthesis of Highly Ordered Mesoporous Tantalum Oxide. <i>Chemistry Letters</i> , 2005, 34, 394-395.	1.3	27
146	Acidic Ultrafine Tungsten Oxide Molecular Wires for Cellulosic Biomass Conversion. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 10234-10238.	13.8	27
147	Mechano-catalytic overall water splitting on some oxides (II). <i>Applied Catalysis A: General</i> , 2000, 200, 255-262.	4.3	25
148	Synthesis of (H ₃ O)TiNbO ₅ ·0.26H ₂ O via hydronium (H ₃ O ⁺) ion-exchange reaction and its photocatalytic activity for H ₂ evolution from aqueous methanol solution. <i>Physical Chemistry Chemical Physics</i> , 2000, 2, 4461-4464.	2.8	25
149	Triblock copolymer-assisted synthesis of a hybrid mesoporous ethenylene-silica with 2D hexagonal structure and large pores. <i>Journal of Materials Chemistry</i> , 2005, 15, 2362.	6.7	25
150	Zinc and Titanium Spinel Oxynitride (Zn _x TiO _y N _z) as a d ⁰ Complex Photocatalyst with Visible Light Activity. <i>Chemistry Letters</i> , 2007, 36, 558-559.	1.3	25
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