

Michikazu Hara

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252
papers

23,024
citations

79
h-index

149
g-index

278
ext. papers

24,837
ext. citations

6.2
avg, IF

6.79
L-index

#	Paper	IF	Citations
252	GaN:ZnO solid solution as a photocatalyst for visible-light-driven overall water splitting. <i>Journal of the American Chemical Society</i> , 2005 , 127, 8286-7	16.4	1195
251	Hydrolysis of cellulose by amorphous carbon bearing SO ₃ H, COOH, and OH groups. <i>Journal of the American Chemical Society</i> , 2008 , 130, 12787-93	16.4	839
250	Conduction and Valence Band Positions of Ta ₂ O ₅ , TaON, and Ta ₃ N ₅ by UPS and Electrochemical Methods. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 1798-1803	3.4	811
249	Ammonia synthesis using a stable electride as an electron donor and reversible hydrogen store. <i>Nature Chemistry</i> , 2012 , 4, 934-40	17.6	801
248	Oxysulfide Sm ₂ Ti ₂ S ₂ O ₅ as a stable photocatalyst for water oxidation and reduction under visible light irradiation (lambda Journal of the American Chemical Society, 2002 , 124, 13547-53	16.4	741
247	Cu ₂ O as a photocatalyst for overall water splitting under visible light irradiation. <i>Chemical Communications</i> , 1998 , 357-358	5.8	685
246	Green chemistry: biodiesel made with sugar catalyst. <i>Nature</i> , 2005 , 438, 178	50.4	669
245	An oxynitride, TaON, as an efficient water oxidation photocatalyst under visible light irradiation (lambda Chemical Communications, 2002 , 1698-9	5.8	540
244	A carbon material as a strong protonic acid. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 2955-8	16.4	482
243	Acid-Catalyzed Reactions on Flexible Polycyclic Aromatic Carbon in Amorphous Carbon. <i>Chemistry of Materials</i> , 2006 , 18, 3039-3045	9.6	448
242	Photoreactions on LaTiO ₂ N under Visible Light Irradiation. <i>Journal of Physical Chemistry A</i> , 2002 , 106, 6750-6753	2.8	419
241	Nb ₂ O ₅ ·nH ₂ O as a heterogeneous catalyst with water-tolerant Lewis acid sites. <i>Journal of the American Chemical Society</i> , 2011 , 133, 4224-7	16.4	412
240	Electride support boosts nitrogen dissociation over ruthenium catalyst and shifts the bottleneck in ammonia synthesis. <i>Nature Communications</i> , 2015 , 6, 6731	17.4	400
239	Photocatalytic water reduction under visible light on a novel ZnIn ₂ S ₄ catalyst synthesized by hydrothermal method. <i>Chemical Communications</i> , 2003 , 2142-3	5.8	376
238	Structural and Kinetic Characterization of Lithium Intercalation into Carbon Anodes for Secondary Lithium Batteries. <i>Journal of the Electrochemical Society</i> , 1995 , 142, 371-379	3.9	362
237	Overall water splitting on (Ga _{1-x} Zn _x)(N _{1-x} O _x) solid solution photocatalyst: relationship between physical properties and photocatalytic activity. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 20504-10	3.4	360
236	RuO ₂ -loaded beta-Ge ₃ N ₄ as a non-oxide photocatalyst for overall water splitting. <i>Journal of the American Chemical Society</i> , 2005 , 127, 4150-1	16.4	353

235	Ta ₃ N ₅ as a Novel Visible Light-Driven Photocatalyst (<i>Chemistry Letters</i> , 2002 , 31, 736-737)	1.7	347
234	Photocatalytic Decomposition of Water on Spontaneously Hydrated Layered Perovskites. <i>Chemistry of Materials</i> , 1997 , 9, 1063-1064	9.6	321
233	TaON and Ta ₃ N ₅ as new visible light driven photocatalysts. <i>Catalysis Today</i> , 2003 , 78, 555-560	5.3	314
232	Amorphous Carbon with SO ₃ H Groups as a Solid Brønsted Acid Catalyst. <i>ACS Catalysis</i> , 2012 , 2, 1296-1304	13.1	308
231	Photo- and Mechano-Catalytic Overall Water Splitting Reactions to Form Hydrogen and Oxygen on Heterogeneous Catalysts. <i>Bulletin of the Chemical Society of Japan</i> , 2000 , 73, 1307-1331	5.1	291
230	LaTiO ₂ N as a Visible-Light (λ ₀₀ nm)-Driven Photocatalyst (2). <i>Journal of Physical Chemistry B</i> , 2003 , 107, 791-797	3.4	264
229	Photocatalytic Water Oxidation in a Buffered Tris(2,2′-bipyridyl)ruthenium Complex-Colloidal IrO ₂ System. <i>Journal of Physical Chemistry A</i> , 2000 , 104, 5275-5280	2.8	260
228	Esterification of higher fatty acids by a novel strong solid acid. <i>Catalysis Today</i> , 2006 , 116, 157-161	5.3	240
227	Zinc Germanium Oxynitride as a Photocatalyst for Overall Water Splitting under Visible Light. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 1042-1048	3.8	239
226	Adsorption-enhanced hydrolysis of beta-1,4-glucan on graphene-based amorphous carbon bearing SO ₃ H, COOH, and OH groups. <i>Langmuir</i> , 2009 , 25, 5068-75	4	234
225	Exfoliated nanosheets as a new strong solid acid catalyst. <i>Journal of the American Chemical Society</i> , 2003 , 125, 5479-85	16.4	229
224	Heterogeneous photocatalytic cleavage of water. <i>Journal of Materials Chemistry</i> , 2010 , 20, 627-641		214
223	Biomass conversion by a solid acid catalyst. <i>Energy and Environmental Science</i> , 2010 , 3, 601	35.4	212
222	Recent progress of photocatalysts for overall water splitting. <i>Catalysis Today</i> , 1998 , 44, 17-26	5.3	206
221	A highly active photocatalyst for overall water splitting with a hydrated layered perovskite structure. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 1997 , 106, 45-49	4.7	186
220	Recent progress of visible-light-driven heterogeneous photocatalysts for overall water splitting. <i>Solid State Ionics</i> , 2004 , 172, 591-595	3.3	183
219	Effect of MnO Crystal Structure on Aerobic Oxidation of 5-Hydroxymethylfurfural to 2,5-Furandicarboxylic Acid. <i>Journal of the American Chemical Society</i> , 2019 , 141, 890-900	16.4	174
218	Electronic Effect of Ruthenium Nanoparticles on Efficient Reductive Amination of Carbonyl Compounds. <i>Journal of the American Chemical Society</i> , 2017 , 139, 11493-11499	16.4	158

217	Unusual enhancement of H ₂ evolution by Ru on TaON photocatalyst under visible light irradiation. <i>Chemical Communications</i> , 2003 , 3000-1	5.8	152
216	Nanosheets as highly active solid acid catalysts for green chemical syntheses. <i>Energy and Environmental Science</i> , 2010 , 3, 82-93	35.4	149
215	Oxysulfides Ln ₂ Ti ₂ S ₂ O ₅ as Stable Photocatalysts for Water Oxidation and Reduction under Visible-Light Irradiation. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 2637-2642	3.4	148
214	Protonated titanate nanotubes as solid acid catalyst. <i>Journal of the American Chemical Society</i> , 2010 , 132, 6622-3	16.4	146
213	Hydrolysis of Cellulose by a Solid Acid Catalyst under Optimal Reaction Conditions. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 3181-3188	3.8	146
212	Preparation of K ₂ La ₂ Ti ₃ O ₁₀ by Polymerized Complex Method and Photocatalytic Decomposition of Water. <i>Chemistry of Materials</i> , 1998 , 10, 72-77	9.6	145
211	Water reduction and oxidation on Pt-Ru/Y ₂ Ta ₂ O ₅ N ₂ catalyst under visible light irradiation. <i>Chemical Communications</i> , 2004 , 2192-3	5.8	143
210	Essential role of hydride ion in ruthenium-based ammonia synthesis catalysts. <i>Chemical Science</i> , 2016 , 7, 4036-4043	9.4	138
209	Electrochemical Behavior of Thin Ta ₃ N ₅ Semiconductor Film. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 11049-11053	3.4	137
208	A Stable and Highly Active Hybrid Mesoporous Solid Acid Catalyst. <i>Advanced Materials</i> , 2005 , 17, 1839-1842	14.2	137
207	Protonated Titanate Nanotubes with Lewis and Brønsted Acidity: Relationship between Nanotube Structure and Catalytic Activity. <i>Chemistry of Materials</i> , 2013 , 25, 385-393	9.6	128
206	Sulfur-substituted and zinc-doped In(OH) ₃ : A new class of catalyst for photocatalytic H ₂ production from water under visible light illumination. <i>Journal of Catalysis</i> , 2006 , 237, 322-329	7.3	126
205	Ru-Loaded C ₁₂ A ₇ :e ⁻ Electride as a Catalyst for Ammonia Synthesis. <i>ACS Catalysis</i> , 2017 , 7, 2313-2324	13.1	125
204	Ti _x N _x O _y F _z as a Stable Photocatalyst for Water Oxidation in Visible Light (. <i>Chemistry Letters</i> , 2003 , 32, 196-197	1.7	123
203	Amorphous Carbon Bearing Sulfonic Acid Groups in Mesoporous Silica as a Selective Catalyst. <i>Chemistry of Materials</i> , 2009 , 21, 186-193	9.6	122
202	Mechano-catalytic overall water splitting. <i>Chemical Communications</i> , 1998 , 2185-2186	5.8	121
201	Synthesis and acid catalysis of cellulose-derived carbon-based solid acid. <i>Solid State Sciences</i> , 2010 , 12, 1029-1034	3.4	115
200	Tantalum Oxynitride for a Novel Cathode of PEFC. <i>Electrochemical and Solid-State Letters</i> , 2005 , 8, A201		114

199	Preparation of a Sulfonated Porous Carbon Catalyst with High Specific Surface Area. <i>Catalysis Letters</i> , 2009 , 131, 242-249	2.8	113
198	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	1.7	112
197	Exfoliated HNb ₃ O ₈ Nanosheets as a Strong Protonic Solid Acid. <i>Chemistry of Materials</i> , 2005 , 17, 2487-2489	2.8	109
196	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	3.4	109
195	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	2.3	108
194	Modification of (Zn _{1+x} Ge)(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	9.6	107
193	Environmentally benign production of biodiesel using heterogeneous catalysts. <i>ChemSusChem</i> , 2009 , 2, 129-35	8.3	105
192	Ammonia decomposition by ruthenium nanoparticles loaded on inorganic electride C12A7:e ⁻ . <i>Chemical Science</i> , 2013 , 4, 3124	9.4	104
191	Preparation of Porous Niobium Oxides by Soft-Chemical Process and Their Photocatalytic Activity. <i>Chemistry of Materials</i> , 1997 , 9, 2179-2184	9.6	104
190	Efficient and Stable Ammonia Synthesis by Self-Organized Flat Ru Nanoparticles on Calcium Amide. <i>ACS Catalysis</i> , 2016 , 6, 7577-7584	13.1	100
189	Structure and catalysis of cellulose-derived amorphous carbon bearing SO ₃ H groups. <i>ChemSusChem</i> , 2011 , 4, 778-84	8.3	99
188	Rechargeable Lithium-Ion Cells Using Graphitized Mesophase-Pitch-Based Carbon Fiber Anodes. <i>Journal of the Electrochemical Society</i> , 1995 , 142, 2564-2571	3.9	99
187	Self-organized Ruthenium-Barium Core-Shell Nanoparticles on a Mesoporous Calcium Amide Matrix for Efficient Low-Temperature Ammonia Synthesis. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 2648-2652	16.4	98
186	Photocatalytic reduction of water by TaON under visible light irradiation. <i>Catalysis Today</i> , 2004 , 90, 313-317	3.17	98
185	Heterogeneously-Catalyzed Aerobic Oxidation of 5-Hydroxymethylfurfural to 2,5-Furandicarboxylic Acid with MnO. <i>ChemSusChem</i> , 2017 , 10, 654-658	8.3	96
184	Titanium Niobate and Titanium Tantalate Nanosheets as Strong Solid Acid Catalysts. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 11549-11555	3.4	91
183	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	3.8	89
182	Photocatalytic Oxidation of Water by Silica-Supported Tris(4,4'-dialkyl-2,2'-bipyridyl)ruthenium Polymeric Sensitizers and Colloidal Iridium Oxide. <i>Chemistry of Materials</i> , 2001 , 13, 4668-4675	9.6	89

181	Crystallization of an ordered mesoporous Nb-Ta oxide. <i>Angewandte Chemie - International Edition</i> , 2003 , 42, 2382-5	16.4	88
180	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	7.1	87
179	Porous Single-Crystalline TaON and Ta ₃ N ₅ Particles. <i>Chemistry of Materials</i> , 2004 , 16, 1603-1605	9.6	85
178	Effect of the particle size for photocatalytic decomposition of water on Ni-loaded K ₄ Nb ₆ O ₁₇ . <i>Microporous Materials</i> , 1997 , 9, 253-258		84
177	Effect of Chromium Addition for Photocatalytic Overall Water Splitting on Ni _{0.2} La ₂ Ti ₃ O ₁₀ . <i>Journal of Catalysis</i> , 2000 , 196, 362-365	7.3	82
176	Titania as an Early Transition Metal Oxide with a High Density of Lewis Acid Sites Workable in Water. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 16028-16033	3.8	81
175	Visible-light-driven photocatalytic behavior of tantalum-oxynitride and nitride. <i>Research on Chemical Intermediates</i> , 2007 , 33, 13-25	2.8	81
174	Novel Synthesis and Photocatalytic Activity of Oxysulfide Sm ₂ Ti ₂ S ₂ O ₅ . <i>Chemistry of Materials</i> , 2003 , 15, 4442-4446	9.6	79
173	Surface State Analysis of Photobrightening in CdSe Nanocrystal Thin Films. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 12566-12568	3.4	79
172	Structure and Acid Catalysis of Mesoporous Nb ₂ O ₅ ·nH ₂ O. <i>Chemistry of Materials</i> , 2010 , 22, 3332-3339	9.6	77
171	Formation of 5-(Hydroxymethyl)furfural by Stepwise Dehydration over TiO ₂ with Water-Tolerant Lewis Acid Sites. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 17117-17125	3.8	72
170	Mechano-catalysis—novel method for overall water splitting. <i>Physical Chemistry Chemical Physics</i> , 1999 , 1, 4485-4491	3.6	71
169	SO ₃ H-bearing mesoporous carbon with highly selective catalysis. <i>Microporous and Mesoporous Materials</i> , 2011 , 143, 443-450	5.3	70
168	Selective glucose transformation by titania as a heterogeneous Lewis acid catalyst. <i>Journal of Molecular Catalysis A</i> , 2014 , 388-389, 100-105		69
167	Metal ion and N co-doped TiO ₂ as a visible-light photocatalyst. <i>Journal of Materials Research</i> , 2004 , 19, 2100-2108	2.5	69
166	Highly Dispersed Ru on Electride [Ca ₂₄ Al ₂₈ O ₆₄] ⁴⁺ (e) ⁴ as a Catalyst for Ammonia Synthesis. <i>ACS Catalysis</i> , 2014 , 4, 674-680	13.1	68
165	(Oxy)nitrides as New Photocatalysts for Water Splitting under Visible Light Irradiation. <i>Electrochemistry</i> , 2002 , 70, 463-465	1.2	68
164	Mechanism Switching of Ammonia Synthesis Over Ru-Loaded Electride Catalyst at Metal-Insulator Transition. <i>Journal of the American Chemical Society</i> , 2015 , 137, 14517-24	16.4	66

163	Fabrication of SrTiO ₃ exposing characteristic facets using molten salt flux and improvement of photocatalytic activity for water splitting. <i>Catalysis Science and Technology</i> , 2013 , 3, 1733	5.5	66
162	New aspects of heterogeneous photocatalysts for water decomposition. <i>Korean Journal of Chemical Engineering</i> , 2001 , 18, 862-866	2.8	66
161	Wavelength-Programmable Organic Distributed-Feedback Laser Based on a Photoassisted Polymer-Migration System. <i>Advanced Materials</i> , 2005 , 17, 1630-1633	24	63
160	Photocatalytic water oxidation by Nafion-stabilized iridium oxide colloids. <i>Chemical Communications</i> , 2000 , 1903-1904	5.8	61
159	Ba _{1.0} Co _{0.7} Fe _{0.2} Nb _{0.1} O _{3.0} Dense Ceramic as an Oxygen Permeable Membrane for Partial Oxidation of Methane to Synthesis Gas. <i>Chemistry Letters</i> , 2006 , 35, 1326-1327	1.7	59
158	Synthesis, Mesostucture, and Photocatalysis of a Highly Ordered and Thermally Stable Mesoporous Mg and Ta Mixed Oxide. <i>Chemistry of Materials</i> , 2004 , 16, 4304-4310	9.6	59
157	LanthanumIridium Oxysulfide as a Visible Light Driven Photocatalyst for Water Splitting. <i>Chemistry Letters</i> , 2007 , 36, 854-855	1.7	55
156	A high performance catalyst of shape-specific ruthenium nanoparticles for production of primary amines by reductive amination of carbonyl compounds. <i>Chemical Science</i> , 2018 , 9, 5949-5956	9.4	54
155	Control of valence band potential and photocatalytic properties of Na _x La _{1-x} TaO _{1+2x} N _{2x} oxynitride solid solutions. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 3667	13	54
154	Preparation of porous niobium oxide by the exfoliation of K ₄ Nb ₆ O ₁₇ and its photocatalytic activity. <i>Journal of Materials Research</i> , 1998 , 13, 861-865	2.5	52
153	sp ² -linked amorphous carbon with sulfonic acid groups as a heterogeneous acid catalyst. <i>ChemSusChem</i> , 2012 , 5, 1841-6	8.3	51
152	Preparation of Thin Films of a Layered Titanate by the Exfoliation of Cs _x Ti _(2-x/4) O ₄ . <i>Chemistry of Materials</i> , 1998 , 10, 329-333	9.6	51
151	Preparation of a high active photocatalyst, K ₂ La ₂ Ti ₃ O ₁₀ , by polymerized complex method and its photocatalytic activity of water splitting. <i>Journal of Materials Research</i> , 1998 , 13, 852-855	2.5	50
150	A bifunctional cerium phosphate catalyst for chemoselective acetalization. <i>Chemical Science</i> , 2017 , 8, 3146-3153	9.4	49
149	Formation and desorption of aluminum hydride from hydrogen adsorbed aluminum surfaces. <i>Surface Science</i> , 1991 , 242, 459-463	1.8	49
148	Solid solution for catalytic ammonia synthesis from nitrogen and hydrogen gases at 50 °C. <i>Nature Communications</i> , 2020 , 11, 2001	17.4	47
147	Preparation and crystallization characteristics of mesoporous TiO ₂ and mixed oxides. <i>Journal of Materials Chemistry</i> , 2005 , 15, 2035		47
146	Effect of high-pressure ammonia treatment on the activity of Ge ₃ N ₄ photocatalyst for overall water splitting. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 17563-9	3.4	46

145	Synthesis of NiO-loaded KTiNbO ₅ photocatalysts by a novel polymerizable complex method. <i>Journal of Alloys and Compounds</i> , 1999 , 285, 77-81	5.7	46
144	Structural and Electrochemical Properties of Lithiated Polymerized Aromatics. Anodes for Lithium-Ion Cells. <i>The Journal of Physical Chemistry</i> , 1995 , 99, 16338-16343		46
143	Direct Activation of Cobalt Catalyst by 12CaO \cdot 7Al ₂ O ₃ Electride for Ammonia Synthesis. <i>ACS Catalysis</i> , 2019 , 9, 1670-1679	13.1	46
142	Preparation and Characterization of Sodium Tantalate Thin Films by Hydrothermal Electrochemical Synthesis. <i>Chemistry of Materials</i> , 2005 , 17, 2422-2426	9.6	45
141	Effect of 10 MPa Ammonia Treatment on the Activity of Visible Light Responsive Ta ₃ N ₅ Photocatalyst. <i>Chemistry Letters</i> , 2006 , 35, 352-353	1.7	45
140	A Carbon Material as a Strong Protonic Acid. <i>Angewandte Chemie</i> , 2004 , 116, 3015-3018	3.6	45
139	Development of highly active SO ₃ H-modified hybrid mesoporous catalyst. <i>Catalysis Today</i> , 2006 , 116, 151-156	5.3	44
138	Hydrothermal Synthesis of Fine NaTaO ₃ Powder as a Highly Efficient Photocatalyst for Overall Water Splitting. <i>Bulletin of the Chemical Society of Japan</i> , 2007 , 80, 423-428	5.1	43
137	Preparation of Ion-Exchangeable Thin Films of Layered Niobate K ₄ Nb ₆ O ₁₇ . <i>Chemistry of Materials</i> , 1998 , 10, 1647-1651	9.6	43
136	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. <i>Chemistry Letters</i> , 2006 , 35, 968-969	1.7	42
135	Mechano-catalytic overall water splitting (II) nafion-deposited Cu ₂ O. <i>Applied Catalysis A: General</i> , 2000 , 190, 35-42	5.1	41
134	A Study of Mechano-Catalysts for Overall Water Splitting. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 780-785	3.4	40
133	Desorption of aluminum hydride from hydrogen adsorbed aluminum(111) surface. <i>The Journal of Physical Chemistry</i> , 1991 , 95, 6-7		39
132	Lewis Acid Catalysis of TiO ₄ Tetrahedra on Mesoporous Silica in Water. <i>ACS Catalysis</i> , 2014 , 4, 1198-1204	13.1	37
131	A Combined Catalyst of Pt Nanoparticles and TiO ₂ with Water-Tolerant Lewis Acid Sites for One-Pot Conversion of Glycerol to Lactic Acid. <i>ChemCatChem</i> , 2016 , 8, 1094-1099	5.2	37
130	Enhanced Catalytic Ammonia Synthesis with Transformed BaO. <i>ACS Catalysis</i> , 2018 , 8, 10977-10984	13.1	36
129	Synthesis of Highly Ordered Hybrid Mesoporous Material Containing Etenylene (C ₂ H=CH ₂) within the Silicate Framework. <i>Chemistry Letters</i> , 2003 , 32, 950-951	1.7	34
128	Dioxygen Activation by a Hexagonal SrMnO ₃ Perovskite Catalyst for Aerobic Liquid-Phase Oxidation. <i>ChemCatChem</i> , 2016 , 8, 3247-3253	5.2	34

127	Mechano-catalytic overall water splitting on some mixed oxides. <i>Catalysis Today</i> , 2000 , 63, 175-181	5.3	32
126	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	13	31
125	Starch saccharification by carbon-based solid acid catalyst. <i>Solid State Sciences</i> , 2010 , 12, 1018-1023	3.4	31
124	Heterogeneously Catalyzed Aerobic Oxidation of Sulfides with a BaRuO Nanoperovskite. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 23792-23801	9.5	29
123	Slow reactant-water exchange and high catalytic performance of water-tolerant Lewis acids. <i>Chemistry - A European Journal</i> , 2014 , 20, 8068-75	4.8	29
122	Mechano-catalytic overall water-splitting into hydrogen and oxygen on some metal oxides. <i>Applied Energy</i> , 2000 , 67, 159-179	10.7	28
121	Anchoring Bond between Ru and N Atoms of Ru/Ca ₂ NH Catalyst: Crucial for the High Ammonia Synthesis Activity. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 20900-20904	3.8	28
120	Ag nanoparticle-decorated, ordered mesoporous silica as an efficient electrocatalyst for alkaline water oxidation reaction. <i>Dalton Transactions</i> , 2019 , 48, 2220-2227	4.3	27
119	Synthesis of Highly Ordered Mesoporous Tantalum Oxide. <i>Chemistry Letters</i> , 2005 , 34, 394-395	1.7	27
118	Electron Donation Enhanced CO Oxidation over Ru-Loaded 12CaO \cdot 7Al ₂ O ₃ Electride Catalyst. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 11725-11731	3.8	26
117	Acidic Ultrafine Tungsten Oxide Molecular Wires for Cellulosic Biomass Conversion. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 10234-8	16.4	26
116	Low-Temperature Reductive Amination of Carbonyl Compounds over Ru Deposited on Nb ₂ O ₅ \cdot 1/2H ₂ O. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 4692-4698	8.3	26
115	Amino Acid-Aided Synthesis of a Hexagonal SrMnO Nanoperovskite Catalyst for Aerobic Oxidation. <i>ACS Omega</i> , 2017 , 2, 1608-1616	3.9	25
114	Zinc and Titanium Spinel Oxynitride (Zn _x TiO _y N _z) as a d π -p π Complex Photocatalyst with Visible Light Activity. <i>Chemistry Letters</i> , 2007 , 36, 558-559	1.7	25
113	Synthesis of (H ₃ O) ⁺ TiNbO ₅ \cdot 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	3.6	25
112	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	4.8	24
111	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		24
110	Synthesis of crystallized mesoporous transition metal oxides by silicone treatment of the oxide precursor. <i>Chemical Communications</i> , 2006 , 2188-90	5.8	23

109	Ammonia synthesis over Co-Mo alloy nanoparticle catalyst prepared via sodium naphthalenide-driven reduction. <i>Chemical Communications</i> , 2016 , 52, 14369-14372	5.8	22
108	Synthesis and acid catalysis of zeolite-templated microporous carbons with SO ₃ H groups. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 9343-50	3.6	22
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