Michikazu Hara

List of Publications by Year in Descending Order

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	Base-Assisted Aerobic C-H Oxidation of Alkylarenes with a Murdochite-Type Oxide MgMnO Nanoparticle Catalyst.. *ACS Applied Materials & Interfaces*, **2022**,	9.5	5
251	Novel Tetradentate Phosphonate Ligand Based Bioinspired Co-Metal□Organic Frameworks: Robust Electrocatalyst for the Hydrogen Evolution Reaction in Different Mediums. *Crystal Growth and Design*, **2021**, 21, 2614-2623	3.5	7
250	Sulfur-containing nitrogen-rich robust hierarchically porous organic polymer for adsorptive removal of mercury: experimental and theoretical insights. *Environmental Science: Nano*, **2021**, 8, 2641-2649	7.1	4
249	Aerobic oxidative CC bond cleavage of aromatic alkenes by a high valency iron-containing perovskite catalyst. *Catalysis Science and Technology*, **2021**, 11, 2369-2373	5.5	10
248	Tin oxide-coated transition metal oxide molecular wires for biomass conversion. *New Journal of Chemistry*, **2020**, 44, 5147-5151	3.6	
247	One-pot aerobic oxidative sulfonamidation of aromatic thiols with ammonia by a dual-functional □MnO nanocatalyst. *Chemical Communications*, **2020**, 56, 2095-2098	5.8	11
246	Solid solution for catalytic ammonia synthesis from nitrogen and hydrogen gases at 50 □C. *Nature Communications*, **2020**, 11, 2001	17.4	47
245	Folic acid-conjugated magnetic mesoporous silica nanoparticles loaded with quercetin: a theranostic approach for cancer management.. *RSC Advances*, **2020**, 10, 23148-23164	3.7	22
244	Electronic Effect in a Ruthenium Catalyst Designed in Nanoporous N-Functionalized Carbon for Efficient Hydrogenation of Heteroarenes. *ACS Applied Materials & Interfaces*, **2020**, 12, 52668-52677	9.5	6
243	Template-Free Synthesis of Mesoporous □MnO Nanoparticles: Structure, Formation Mechanism, and Catalytic Properties. *ACS Applied Materials & Interfaces*, **2020**, 12, 36004-36013	9.5	17
242	One-pot reductive amination of carbonyl compounds with nitro compounds over a Ni/NiO composite.. *RSC Advances*, **2020**, 10, 32296-32300	3.7	7
241	Effects of ruthenium hydride species on primary amine synthesis by direct amination of alcohols over a heterogeneous Ru catalyst. *Chemical Science*, **2020**, 11, 9884-9890	9.4	16
240	Intramolecular Electron Transfer and Oxygen Transfer of Phosphomolybdate Molecular Wires. *Inorganic Chemistry*, **2019**, 58, 12272-12279	5.1	3
239	Ag nanoparticle-decorated, ordered mesoporous silica as an efficient electrocatalyst for alkaline water oxidation reaction. *Dalton Transactions*, **2019**, 48, 2220-2227	4.3	27
238	Redox-Active Zeolitic Transition Metal Oxides Based on □Keggin Units for Selective Oxidation. *Inorganic Chemistry*, **2019**, 58, 6283-6293	5.1	14
237	Structure-Function Relationships in Fructose Dehydration to 5-Hydroxymethylfurfural under Mild Conditions by Porous Ionic Crystals Constructed with Analogous Building Blocks. *ChemCatChem*, **2019**, 11, 3745-3749	5.2	3
236	Benzylic C H fluorination over supported silver catalyst. *Molecular Catalysis*, **2019**, 475, 110463	3.3	2

235	Ambient-temperature oxidative coupling of methane in an electric field by a cerium phosphate nanorod catalyst. *Chemical Communications*, **2019**, 55, 4019-4022	5.8	20
234	Low-Temperature Reductive Amination of Carbonyl Compounds over Ru Deposited on Nb2O5□hH2O. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 4692-4698	8.3	26
233	Direct Activation of Cobalt Catalyst by 12CaO□7Al2O3 Electride for Ammonia Synthesis. *ACS Catalysis*, **2019**, 9, 1670-1679	13.1	46
232	Effect of MnO Crystal Structure on Aerobic Oxidation of 5-Hydroxymethylfurfural to 2,5-Furandicarboxylic Acid. *Journal of the American Chemical Society*, **2019**, 141, 890-900	16.4	174
231	Liquid-phase oxidation of alkanes with molecular oxygen catalyzed by high valent iron-based perovskite. *Chemical Communications*, **2018**, 54, 6772-6775	5.8	20
230	Large Oblate Hemispheroidal Ruthenium Particles Supported on Calcium Amide as Efficient Catalysts for Ammonia Decomposition. *Chemistry - A European Journal*, **2018**, 24, 7976-7984	4.8	24
229	Self-organized Ruthenium□Barium Core□Shell Nanoparticles on a Mesoporous Calcium Amide Matrix for Efficient Low-Temperature Ammonia Synthesis. *Angewandte Chemie*, **2018**, 130, 2678-2682	3.6	18
228	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	16.4	98
227	Heterogeneously Catalyzed Aerobic Oxidation of Sulfides with a BaRuO Nanoperovskite. *ACS Applied Materials & Interfaces*, **2018**, 10, 23792-23801	9.5	29
226	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	9.4	54
225	Enhanced Catalytic Ammonia Synthesis with Transformed BaO. *ACS Catalysis*, **2018**, 8, 10977-10984	13.1	36
224	A zeolitic vanadotungstate family with structural diversity and ultrahigh porosity for catalysis. *Nature Communications*, **2018**, 9, 3789	17.4	22
223	Control of nitrogen activation ability by Co-Mo bimetallic nanoparticle catalysts prepared via sodium naphthalenide-reduction. *Journal of Catalysis*, **2018**, 364, 31-39	7.3	21
222	A bifunctional cerium phosphate catalyst for chemoselective acetalization. *Chemical Science*, **2017**, 8, 3146-3153	9.4	49
221	Ru-Loaded C12A7:e□Electride as a Catalyst for Ammonia Synthesis. *ACS Catalysis*, **2017**, 7, 2313-2324	13.1	125
220	Amino Acid-Aided Synthesis of a Hexagonal SrMnO Nanoperovskite Catalyst for Aerobic Oxidation. *ACS Omega*, **2017**, 2, 1608-1616	3.9	25
219	Synthesis of crystalline molybdenum oxides based on a 1D molecular structure and their ion-exchange properties. *New Journal of Chemistry*, **2017**, 41, 4503-4509	3.6	7
218	Nanoscale optical imaging of lithium-ion distribution on a LiCoO2cathode surface. *Applied Physics Express*, **2017**, 10, 052503	2.4	3

217	Oxidation Number Estimation of Ca in Ca-N Compounds from Ca K-edge XANES Spectra. *Bulletin of the Chemical Society of Japan*, **2017**, 90, 963-965	5.1	5
216	Heterogeneously-Catalyzed Aerobic Oxidation of 5-Hydroxymethylfurfural to 2,5-Furandicarboxylic Acid with MnO. *ChemSusChem*, **2017**, 10, 654-658	8.3	96
215	Photoassist-phosphorylated TiO as a catalyst for direct formation of 5-(hydroxymethyl)furfural from glucose. *Physical Chemistry Chemical Physics*, **2017**, 19, 3688-3693	3.6	12
214	The Assembly of an All-Inorganic Porous Soft Framework from Metal Oxide Molecular Nanowires. *Chemistry - A European Journal*, **2017**, 23, 1972-1980	4.8	9
213	Acid Properties of Protonated Titanate Nanotubes. *Journal of the Japan Petroleum Institute*, **2017**, 60, 113-120	1	8
212	Formation and Structural Changes of 4-Fluorobenzenethiol Self-Assembled Monolayers on Au(111). *Journal of Nanoscience and Nanotechnology*, **2017**, 17, 5597-5600	1.3	1
211	Standing-Up Phase of Hexanedithiol Self-Assembled Monolayers on Au(111) Induced by Displacement Reaction. *Journal of Nanoscience and Nanotechnology*, **2017**, 17, 5780-5783	1.3	1
210	Ultrathin Anionic Tungstophosphite Molecular Wire with Tunable Hydrophilicity and Catalytic Activity for Selective Epoxidation in Organic Media. *Chemistry - A European Journal*, **2017**, 23, 17497-17503	4.8	9
209	Electronic Effect of Ruthenium Nanoparticles on Efficient Reductive Amination of Carbonyl Compounds. *Journal of the American Chemical Society*, **2017**, 139, 11493-11499	16.4	158
208	Fungus-derived hydroxyl radicals kill hepatic cells by enhancing nuclear transglutaminase. *Scientific Reports*, **2017**, 7, 4746	4.9	9
207	Ultrathin Anionic Tungstophosphite Molecular Wire with Tunable Hydrophilicity and Catalytic Activity for Selective Epoxidation in Organic Media. *Chemistry - A European Journal*, **2017**, 23, 17397-17397	4.8	
206	Raman Imaging Analysis of Local Crystal Structures in LiCoO Thin Films Calcined at Different Temperatures. *Analytical Sciences*, **2017**, 33, 853-858	1.7	8
205	Structural Characterization of 2D Zirconomolybdate by Atomic Scale HAADF-STEM and XANES and Its Highly Stable Electrochemical Properties as a Li Battery Cathode. *Inorganic Chemistry*, **2017**, 56, 14306-14314	5.1	4
204	Anchoring Bond between Ru and N Atoms of Ru/Ca2NH Catalyst: Crucial for the High Ammonia Synthesis Activity. *Journal of Physical Chemistry C*, **2017**, 121, 20900-20904	3.8	28
203	Acidic Ultrafine Tungsten Oxide Molecular Wires for Cellulosic Biomass Conversion. *Angewandte Chemie*, **2016**, 128, 10390-10394	3.6	9
202	Ammonia synthesis over Co-Mo alloy nanoparticle catalyst prepared via sodium naphthalenide-driven reduction. *Chemical Communications*, **2016**, 52, 14369-14372	5.8	22
201	Synthesis of Vanadium-Incorporated, Polyoxometalate-Based Open Frameworks and Their Applications for Cathode-Active Materials. *European Journal of Inorganic Chemistry*, **2016**, 2016, 1242-1250	2.3	13
200	Synthesis of niobium-doped titanate nanotubes as solid acid catalysts. *Catalysis Science and Technology*, **2016**, 6, 4832-4839	5.5	17

199	A Combined Catalyst of Pt Nanoparticles and TiO2 with Water-Tolerant Lewis Acid Sites for One-Pot Conversion of Glycerol to Lactic Acid. *ChemCatChem*, **2016**, 8, 1094-1099	5.2	37
198	Essential role of hydride ion in ruthenium-based ammonia synthesis catalysts. *Chemical Science*, **2016**, 7, 4036-4043	9.4	138
197	High Oxidation Tolerance of Ru Nanoparticles on 12CaO□7Al2O3 Electride. *Journal of Physical Chemistry C*, **2016**, 120, 8711-8716	3.8	4
196	Efficient and Stable Ammonia Synthesis by Self-Organized Flat Ru Nanoparticles on Calcium Amide. *ACS Catalysis*, **2016**, 6, 7577-7584	13.1	100
195	Acidic Ultrafine Tungsten Oxide Molecular Wires for Cellulosic Biomass Conversion. *Angewandte Chemie - International Edition*, **2016**, 55, 10234-8	16.4	26
194	Dioxygen Activation by a Hexagonal SrMnO3 Perovskite Catalyst for Aerobic Liquid-Phase Oxidation. *ChemCatChem*, **2016**, 8, 3247-3253	5.2	34
193	Formation of 5-(Hydroxymethyl)furfural by Stepwise Dehydration over TiO2 with Water-Tolerant Lewis Acid Sites. *Journal of Physical Chemistry C*, **2015**, 119, 17117-17125	3.8	72
192	Recent progress in the development of solid catalysts for biomass conversion into high value-added chemicals. *Science and Technology of Advanced Materials*, **2015**, 16, 034903	7.1	87
191	Electride support boosts nitrogen dissociation over ruthenium catalyst and shifts the bottleneck in ammonia synthesis. *Nature Communications*, **2015**, 6, 6731	17.4	400
190	Mechanism Switching of Ammonia Synthesis Over Ru-Loaded Electride Catalyst at Metal-Insulator Transition. *Journal of the American Chemical Society*, **2015**, 137, 14517-24	16.4	66
189	Synergistic Catalysis by Lewis Acid and Base Sites on ZrO2 for Meerwein□Ponndorf□Verley Reduction. *Journal of Physical Chemistry C*, **2015**, 119, 26540-26546	3.8	89
188	Transesterification of Triolein over Hydrophobic Microporous Carbon with SO3H Groups. *ChemCatChem*, **2015**, 7, 3945-3950	5.2	8
187	Electron Donation Enhanced CO Oxidation over Ru-Loaded 12CaO□7Al2O3 Electride Catalyst. *Journal of Physical Chemistry C*, **2015**, 119, 11725-11731	3.8	26
186	Selective glucose transformation by titania as a heterogeneous Lewis acid catalyst. *Journal of Molecular Catalysis A*, **2014**, 388-389, 100-105		69
185	Lewis Acid Catalysis of TiO4 Tetrahedra on Mesoporous Silica in Water. *ACS Catalysis*, **2014**, 4, 1198-1204	13.1	37
184	Highly Dispersed Ru on Electride [Ca24Al28O64]4+(e□)4 as a Catalyst for Ammonia Synthesis. *ACS Catalysis*, **2014**, 4, 674-680	13.1	68
183	Photovoltaic properties of Si-based quantum-dot-sensitized solar cells prepared using laser plasma in liquid. *Japanese Journal of Applied Physics*, **2014**, 53, 010208	1.4	6
182	Surface Treatment for Conductive 12 CaO?7 Al2O3 Electride Powder by Rapid Thermal Annealing Processing and Its Application to Ammonia Synthesis. *ChemCatChem*, **2014**, 6, n/a-n/a	5.2	5

181	Efficient Mukaiyama aldol reaction in water with TiO4 tetrahedra on a hydrophobic mesoporous silica surface. *Chemical Communications*, **2014**, 50, 13473-6	5.8	15
180	Systematical investigation on characteristics of a photocatalyst: tantalum oxynitrides. *Microscopy (Oxford, England)*, **2014**, 63, 313-24	1.3	3
179	Lewis acid properties of some metal salts for lactic acid formation in water: 31 P NMR spectroscopy with trimethylphosphine oxide as a molecular probe. *Catalysis Today*, **2014**, 226, 198-203	5.3	15
178	Heterogeneous Lewis Acid Catalysts Workable in Water. *Bulletin of the Chemical Society of Japan*, **2014**, 87, 931-941	5.1	14
177	Slow reactant-water exchange and high catalytic performance of water-tolerant Lewis acids. *Chemistry - A European Journal*, **2014**, 20, 8068-75	4.8	29
176	Photocatalytic activities of Cu3xLa1□Ta7O19 solid solutions for H2 evolution under visible light irradiation. *Catalysis Science and Technology*, **2013**, 3, 3147	5.5	15
175	Ammonia decomposition by ruthenium nanoparticles loaded on inorganic electride C12A7:e□ *Chemical Science*, **2013**, 4, 3124	9.4	104
174	Synthesis and acid catalysis of zeolite-templated microporous carbons with SO3H groups. *Physical Chemistry Chemical Physics*, **2013**, 15, 9343-50	3.6	22
173	Effect of preparation conditions on the structural and acid catalytic properties of protonated titanate nanotubes. *Journal of Materials Chemistry A*, **2013**, 1, 12768	13	31
172	Protonated Titanate Nanotubes with Lewis and Br□sted Acidity: Relationship between Nanotube Structure and Catalytic Activity. *Chemistry of Materials*, **2013**, 25, 385-393	9.6	128
171	Kinetic Study of Glucose Production from Cellobiose through Hydrolysis with Solid Acid Catalyst. *Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy*, **2013**, 92, 675-681	0.5	1
170	Control of valence band potential and photocatalytic properties of NaxLa1□TaO1+2xN2□x oxynitride solid solutions. *Journal of Materials Chemistry A*, **2013**, 1, 3667	13	54
169	Fabrication of SrTiO3 exposing characteristic facets using molten salt flux and improvement of photocatalytic activity for water splitting. *Catalysis Science and Technology*, **2013**, 3, 1733	5.5	66
168	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	3.8	81
167	Efficient Conversion of Pyruvic Aldehyde into Lactic Acid by Lewis Acid Catalyst in Water. *Chemistry Letters*, **2013**, 42, 873-875	1.7	21
166	Electrical Properties of Amorphous Carbon Semiconductor Prepared Using a Naphthalene Precursor. *Bulletin of the Chemical Society of Japan*, **2013**, 86, 45-50	5.1	4
165	MoO3/ZrO2 as a Stable, Reusable, and Highly Active Solid Acid Catalyst for Polyester Polyol Synthesis. *Chemistry Letters*, **2013**, 42, 1314-1316	1.7	1
164	Preparation of porous spherical ZrO2□iO2 composite particles using templating and its solid acidity by H2SO4 treatment. *Journal of Materials Science*, **2012**, 47, 341-349	4.3	10

163	Ammonia synthesis using a stable electride as an electron donor and reversible hydrogen store. *Nature Chemistry*, **2012**, 4, 934-40	17.6	801
162	Amorphous Carbon with SO3H Groups as a Solid Brønsted Acid Catalyst. *ACS Catalysis*, **2012**, 2, 1296-1304	13.1	308
161	sp²-linked amorphous carbon with sulfonic acid groups as a heterogeneous acid catalyst. *ChemSusChem*, **2012**, 5, 1841-6	8.3	51
160	Nb2O5·nH2O as a heterogeneous catalyst with water-tolerant Lewis acid sites. *Journal of the American Chemical Society*, **2011**, 133, 4224-7	16.4	412
159	Magnetic sponge prepared with an alkanedithiol-bridged network of nanomagnets. *Journal of the American Chemical Society*, **2011**, 133, 11470-3	16.4	12
158	Synthesis and Characterization of Semiconducting Boron-doped Amorphous Carbon Materials Using an Organic Boron Compound as a Precursor. *Chemistry Letters*, **2011**, 40, 410-411	1.7	5
157	Structure and catalysis of cellulose-derived amorphous carbon bearing SO3H groups. *ChemSusChem*, **2011**, 4, 778-84	8.3	99
156	SO3H-bearing mesoporous carbon with highly selective catalysis. *Microporous and Mesoporous Materials*, **2011**, 143, 443-450	5.3	70
155	Mechanical compression induced short-range ordering of nanographene spins. *Physical Review B*, **2010**, 82,	3.3	7
154	Heterogeneous photocatalytic cleavage of water. *Journal of Materials Chemistry*, **2010**, 20, 627-641		214
153	Nanosheets as highly active solid acid catalysts for green chemical syntheses. *Energy and Environmental Science*, **2010**, 3, 82-93	35.4	149
152	Protonated titanate nanotubes as solid acid catalyst. *Journal of the American Chemical Society*, **2010**, 132, 6622-3	16.4	146
151	Structure and Acid Catalysis of Mesoporous Nb2O5·nH2O. *Chemistry of Materials*, **2010**, 22, 3332-3339	9.6	77
150	Biomass conversion by a solid acid catalyst. *Energy and Environmental Science*, **2010**, 3, 601	35.4	212
149	Magnetism of nanographene network influenced by the interaction with acid species. *Journal of Physics and Chemistry of Solids*, **2010**, 71, 534-538	3.9	2
148	Biodiesel Production by Amorphous Carbon Bearing SO3H, COOH and Phenolic OH Groups, a Solid Brønsted Acid Catalyst. *Topics in Catalysis*, **2010**, 53, 805-810	2.3	108
147	Starch saccharification by carbon-based solid acid catalyst. *Solid State Sciences*, **2010**, 12, 1018-1023	3.4	31
146	Synthesis and acid catalysis of cellulose-derived carbon-based solid acid. *Solid State Sciences*, **2010**, 12, 1029-1034	3.4	115

145	Environmentally benign production of biodiesel using heterogeneous catalysts. *ChemSusChem*, **2009**, 2, 129-35	8.3	105
144	Safety management by use of laser mass spectrometry of polychlorinated biphenyls (PCBs) in the processed gas and work environment of a PCB disposal plant. *Journal of Material Cycles and Waste Management*, **2009**, 11, 148-154	3.4	6
143	Preparation of a Sulfonated Porous Carbon Catalyst with High Specific Surface Area. *Catalysis Letters*, **2009**, 131, 242-249	2.8	113
142	Hydrolysis of Cellulose by a Solid Acid Catalyst under Optimal Reaction Conditions. *Journal of Physical Chemistry C*, **2009**, 113, 3181-3188	3.8	146
141	Needlelike Crystal Growth and Anisotropic Photochemical Reactivity of Ta3N5 Synthesized in Vacuo. *Journal of Physical Chemistry C*, **2009**, 113, 17151-17155	3.8	13
140	Adsorption-enhanced hydrolysis of beta-1,4-glucan on graphene-based amorphous carbon bearing SO3H, COOH, and OH groups. *Langmuir*, **2009**, 25, 5068-75	4	234
139	Preparation of solid acid carbon coating on the surface of TiO2 by photo-CVD of gaseous aromatic hydrocarbons. *Catalysis Communications*, **2009**, 10, 1670-1673	3.2	1
138	Amorphous Carbon Bearing Sulfonic Acid Groups in Mesoporous Silica as a Selective Catalyst. *Chemistry of Materials*, **2009**, 21, 186-193	9.6	122
137	Hydrolysis of cellulose by amorphous carbon bearing SO3H, COOH, and OH groups. *Journal of the American Chemical Society*, **2008**, 130, 12787-93	16.4	839
136	Modification of (Zn1+xGe)(N2Ox) Solid Solution as a Visible Light Driven Photocatalyst for Overall Water Splitting. *Chemistry of Materials*, **2007**, 19, 2120-2127	9.6	107
135	Sulfonated Incompletely Carbonized Glucose as Strong Br□sted Acid Catalyst. *Studies in Surface Science and Catalysis*, **2007**, 172, 405-408	1.8	1
134	Photocatalytic Decomposition of Water by a Novel Photocatalyst, Ge3N4. *Studies in Surface Science and Catalysis*, **2007**, 172, 433-436	1.8	
133	Environmentally Benign Production of Chemicals and Energy Using a Carbon-Based Strong Solid Acid. *Journal of the American Ceramic Society*, **2007**, 90, 071019062949001-???	3.8	13
132	Visible-light-driven photocatalytic behavior of tantalum-oxynitride and nitride. *Research on Chemical Intermediates*, **2007**, 33, 13-25	2.8	81
131	Hydrothermal Synthesis of Fine NaTaO3Powder as a Highly Efficient Photocatalyst for Overall Water Splitting. *Bulletin of the Chemical Society of Japan*, **2007**, 80, 423-428	5.1	43
130	Lanthanum□ndium Oxysulfide as a Visible Light Driven Photocatalyst for Water Splitting. *Chemistry Letters*, **2007**, 36, 854-855	1.7	55
129	Laser Mass Spectrometry: Rapid Analysis of Polychlorinated Biphenyls in Exhaust Gas of Disposal Plants. *Journal of Environment and Engineering*, **2007**, 2, 25-34		9
128	Zinc and Titanium Spinel Oxynitride (ZnxTiOyNz) as a d0□10Complex Photocatalyst with Visible Light Activity. *Chemistry Letters*, **2007**, 36, 558-559	1.7	25

127	Zinc Germanium Oxynitride as a Photocatalyst for Overall Water Splitting under Visible Light. *Journal of Physical Chemistry C*, **2007**, 111, 1042-1048	3.8	239
126	Environmental Monitoring Method of Di-, Tri-, Tetra-, Penta-, and Hexa-Chlorinated Biphenyls in the Gas Phase by Use of the Picosecond Laser Ionization. *Journal of Chemical Engineering of Japan*, **2007**, 40, 191-197	0.8	3
125	Sulfur-substituted and zinc-doped In(OH)3: A new class of catalyst for photocatalytic H2 production from water under visible light illumination. *Journal of Catalysis*, **2006**, 237, 322-329	7.3	126
124	Wavelength Programmable Organic Distributed Feedback Laser Using a Photoinduced Surface Relief Grating. *Molecular Crystals and Liquid Crystals*, **2006**, 445, 269/[559]-273/[563]	0.5	4
123	Fluorescence Dynamics of Organic Laser Dyes in Azobenzene Polymer. *Molecular Crystals and Liquid Crystals*, **2006**, 444, 81-86	0.5	6
122	Synthesis of crystallized mesoporous transition metal oxides by silicone treatment of the oxide precursor. *Chemical Communications*, **2006**, 2188-90	5.8	23
121	Acid-Catalyzed Reactions on Flexible Polycyclic Aromatic Carbon in Amorphous Carbon. *Chemistry of Materials*, **2006**, 18, 3039-3045	9.6	448
120	Effect of high-pressure ammonia treatment on the activity of Ge3N4 photocatalyst for overall water splitting. *Journal of Physical Chemistry B*, **2006**, 110, 17563-9	3.4	46
119	Real-time monitoring of monochlorinated benzene and polychlorinated biphenyls in the gas phase with on-line detection: High chemical selectivity of resonance-enhanced two-photon ionization. *Analytical Sciences*, **2006**, 22, 603-6	1.7	5
118	Effect of 10 MPa Ammonia Treatment on the Activity of Visible Light Responsive Ta3N5Photocatalyst. *Chemistry Letters*, **2006**, 35, 352-353	1.7	45
117	Ba1.0Co0.7Fe0.2Nb0.1O3□Dense Ceramic as an Oxygen Permeable Membrane for Partial Oxidation of Methane to Synthesis Gas. *Chemistry Letters*, **2006**, 35, 1326-1327	1.7	59
116	Oxygen-permeable Membranes of Ba1.0Co0.7Fe0.2Nb0.1O3□for Preparation of Synthesis Gas from Methane by Partial Oxidation. *Chemistry Letters*, **2006**, 35, 968-969	1.7	42
115	Development of highly active SO3H-modified hybrid mesoporous catalyst. *Catalysis Today*, **2006**, 116, 151-156	5.3	44
114	Esterification of higher fatty acids by a novel strong solid acid. *Catalysis Today*, **2006**, 116, 157-161	5.3	240
113	Preparation and crystallization characteristics of mesoporous TiO2 and mixed oxides. *Journal of Materials Chemistry*, **2005**, 15, 2035		47
112	Triblock copolymer-assisted synthesis of a hybrid mesoporous ethenylene□silica with 2D hexagonal structure and large pores. *Journal of Materials Chemistry*, **2005**, 15, 2362		24
111	Tantalum Oxynitride for a Novel Cathode of PEFC. *Electrochemical and Solid-State Letters*, **2005**, 8, A201		114
110	RuO2-loaded beta-Ge3N4 as a non-oxide photocatalyst for overall water splitting. *Journal of the American Chemical Society*, **2005**, 127, 4150-1	16.4	353

109	GaN:ZnO solid solution as a photocatalyst for visible-light-driven overall water splitting. *Journal of the American Chemical Society*, **2005**, 127, 8286-7	16.4	1195
108	Preparation and Characterization of Sodium Tantalate Thin Films by Hydrothermal Electrochemical Synthesis. *Chemistry of Materials*, **2005**, 17, 2422-2426	9.6	45
107	Exfoliated HNb3O8 Nanosheets as a Strong Protonic Solid Acid. *Chemistry of Materials*, **2005**, 17, 2487-2489	9.6	109
106	Overall water splitting on (Ga(1-x)Zn(x))(N(1-x)O(x)) solid solution photocatalyst: relationship between physical properties and photocatalytic activity. *Journal of Physical Chemistry B*, **2005**, 109, 20504-10	3.4	360
105	Preparation of crack-free, transparent, nanoporous niobium oxide film with crystalline structure by evaporation-induced self-assembly (EISA) process. *Studies in Surface Science and Catalysis*, **2005**, 321-326	1.8	
104	Control of Pore Size in Mesoporous Silica by Incremental Surface Modification Using Tetramethyl Orthosilicate. *Chemistry Letters*, **2005**, 34, 596-597	1.7	3
103	Photoinduced Transformation of Silicone-modified TiO2. *Chemistry Letters*, **2005**, 34, 198-199	1.7	1
102	Synthesis of Highly Ordered Mesoporous Tantalum Oxide. *Chemistry Letters*, **2005**, 34, 394-395	1.7	27
101	Kinetic Study of Dehydrogenation between HSiloxane and TiOH on TiO2. *Chemistry Letters*, **2005**, 34, 460-461	1.7	
100	Rapid analysis of polychlorinated biphenyls in the gas phase with resonance-enhanced two-photon ionization: optimal injection of ions into the ion-trap storage/time-of-flight mass spectrometer. *Analytical Sciences*, **2005**, 21, 1111-5	1.7	2
99	Green chemistry: biodiesel made with sugar catalyst. *Nature*, **2005**, 438, 178	50.4	669
98	Wavelength-Programmable Organic Distributed-Feedback Laser Based on a Photoassisted Polymer-Migration System. *Advanced Materials*, **2005**, 17, 1630-1633	24	63
97	A Stable and Highly Active Hybrid Mesoporous Solid Acid Catalyst. *Advanced Materials*, **2005**, 17, 1839-1842	24	137
96	Synthesis and application of thermally stable mesoporous Ta2O5 photocatalyst for overall water decomposition. *Studies in Surface Science and Catalysis*, **2005**, 158, 1477-1484	1.8	9
95	Layered titanate thin film as an electrode material. *Journal of Materials Research*, **2004**, 19, 661-666	2.5	2
94	Metal ion and N co-doped TiO2 as a visible-light photocatalyst. *Journal of Materials Research*, **2004**, 19, 2100-2108	2.5	69
93	Recent progress of visible-light-driven heterogeneous photocatalysts for overall water splitting. *Solid State Ionics*, **2004**, 172, 591-595	3.3	183
92	Supermicroporous Niobium Oxide as an Acid Catalyst. *Catalysis Letters*, **2004**, 98, 181-186	2.8	21

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