Yutaka Amao

List of Publications by Year in Descending Order

204 papers	4,117 citations	34 h-index	52 g-index
222 ext. papers	4,583 ext. citations	4.3 avg, IF	6.04 L-index

#	Paper	IF	Citations
204	Fabrication of a stable CdS photoanode for photoelectrochemical CO2 reduction under visible-light irradiation. *New Journal of Chemistry*, **2022**, 46, 5932-5938	3.6	
203	Visible-Light Driven CO2 Reduction to Formate with Electron Mediated Nicotinamide-Modified Viologen in the System of Water-Soluble Zinc Porphyrin and Formate Dehydrogenase. *ChemNanoMat*, **2021**, 7, 626-634	3.5	1
202	Enhanced catalytic stability of acid phosphatase immobilized in the mesospaces of a SiO2-nanoparticles assembly for catalytic hydrolysis of organophosphates. *Molecular Catalysis*, **2021**, 510, 111669	3.3	1
201	Photoelectrochemical reduction of CO2 to formate over a hybrid system of CuInS2 photocathode and formate dehydrogenase under visible-light irradiation. *New Journal of Chemistry*, **2021**, 45, 14803-14807	3.6	1
200	Visible-light driven reduction of CO2 to formate by a water-soluble zinc porphyrin and formate dehydrogenase system with electron-mediated amino and carbamoyl group-modified viologen. *New Journal of Chemistry*, **2021**, 45, 5780-5790	3.6	1
199	Mechanistic Study of Hydrogen Production Based on the Formate Decomposition with Platinum Nanoparticles Dispersed by Polyvinylpyrrolidone. *Journal of the Japan Petroleum Institute*, **2021**, 64, 203-210	1	0
198	Cationic poly-L-amino acid-enhanced selective hydrogen production based on formate decomposition with platinum nanoparticles dispersed by polyvinylpyrrolidone. *New Journal of Chemistry*, **2021**, 45, 9324-9333	3.6	0
197	Visible light driven selective NADH regeneration using a system of water-soluble zinc porphyrin and homogeneous polymer-dispersed rhodium nanoparticles. *New Journal of Chemistry*, **2021**, 45, 15748-15752	3.6	2
196	Can formate dehydrogenase from Candida boidinii catalytically reduce carbon dioxide, bicarbonate, or carbonate to formate?. *New Journal of Chemistry*, **2020**, 44, 11922-11926	3.6	10
195	Enhancement of catalytic activity for selective hydrogen production from formate with homogeneously poly(vinylpyrrolidone)/cationic poly(L-lysine) dispersed platinum nanoparticles. *New Journal of Chemistry*, **2020**, 44, 14334-14338	3.6	3
194	Theoretical study on CO reduction catalyzed by formate dehydrogenase using the cation radical of a bipyridinium salt with an ionic substituent as a co-enzyme. *Physical Chemistry Chemical Physics*, **2020**, 22, 26987-26994	3.6	2
193	Visible-light-driven CO reduction to formate with a system of water-soluble zinc porphyrin and formate dehydrogenase in ionic liquid/aqueous media.. *RSC Advances*, **2020**, 10, 42354-42362	3.7	2
192	How does methylviologen cation radical supply two electrons to the formate dehydrogenase in the catalytic reduction process of CO to formate?. *Physical Chemistry Chemical Physics*, **2020**, 22, 18595-18605	3.6	7
191	Artificial co-enzyme based on carbamoyl-modified viologen derivative cation radical for formate dehydrogenase in the catalytic CO2 reduction to formate. *New Journal of Chemistry*, **2020**, 44, 18803-18812	3.6	3
190	Recent advances in light-driven C–H bond activation and building C–C bonds with CO2 as a feedstock for carbon capture and utilization technology. *Green Chemistry*, **2020**, 22, 6682-6713	10	6
189	Trivalent metal ions promote the malic enzyme-catalyzed building of carbon–carbon bonds from CO2 and pyruvate. *New Journal of Chemistry*, **2020**, 44, 17208-17214	3.6	1
188	Catalytic mechanism for selective hydrogen production based on formate decomposition with polyvinylpyrrolidone-dispersed platinum nanoparticles. *Sustainable Energy and Fuels*, **2020**, 4, 3458-3466	5.8	6

187	Photoelectrochemical CO2 Reduction to Formate with the Sacrificial Reagent Free System of Semiconductor Photocatalysts and Formate Dehydrogenase. *ChemCatChem*, **2019**, 11, 6227-6235	5.2	14
186	Electrochemical Evaluation for Multiple Functions of Pt-loaded TiO2 Nanoparticles Deposited on a Photocathode. *ChemElectroChem*, **2019**, 6, 4859-4866	4.3	9
185	Visible-light driven hydrogen production using chlorophyll derivatives conjugated with a viologen moiety in the presence of platinum nanoparticles. *Photochemical and Photobiological Sciences*, **2019**, 18, 2673-2681	4.2	8
184	Anti-Stokes fluorescence from chlorophyll a. *Journal of Physics: Conference Series*, **2019**, 1220, 012043	0.3	
183	Transient grating spectroscopy of β-carotene pumped with spectrally chirped pulses. *Journal of Physics: Conference Series*, **2019**, 1220, 012045	0.3	
182	Double-Electron Reduced Diphenylviologen as a Coenzyme for Biocatalytic Building Carbon–Carbon Bonds from CO2 as a Carbon Feedstock. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 9080-9085	8.3	4
181	Selective Hydrogen Production from Formate Using Nanoparticle with Homogeneously Polymer-dispersed Platinum Clusters. *Chemistry Letters*, **2019**, 48, 775-778	1.7	6
180	Methanol production from CO2 with the hybrid system of biocatalyst and organo-photocatalyst. *Catalysis Today*, **2018**, 307, 243-247	5.3	16
179	A visible-light driven electrochemical biofuel cell with the function of CO2 conversion to formic acid: coupled thylakoid from microalgae and biocatalyst immobilized electrodes. *New Journal of Chemistry*, **2018**, 42, 9269-9280	3.6	7
178	Visible light-induced reduction properties of diphenylviologen with water-soluble porphyrin. *Journal of Photochemistry and Photobiology A: Chemistry*, **2018**, 358, 368-373	4.7	7
177	The improvement of formic acid production from CO2 with visible-light energy and formate dehydrogenase by the function of the viologen derivative with carbamoylmethyl group as an electron carrier. *Journal of Photochemistry and Photobiology A: Chemistry*, **2018**, 358, 362-367	4.7	14
176	Effective Artificial Co-enzyme Based on Single-Electron Reduced Form of 2,2?-Bipyridinium Salt Derivatives for Formate Dehydrogenase in the Catalytic Conversion of CO2 to Formic Acid. *Bulletin of the Chemical Society of Japan*, **2018**, 91, 1369-1376	5.1	16
175	Photoredox systems with biocatalysts for CO2 utilization. *Sustainable Energy and Fuels*, **2018**, 2, 1928-1958	5.8	31
174	Singlet and triplet excited states dynamics of photosynthetic pigment chlorophyll a investigated by sub-nanosecond pump-probe spectroscopy. *Journal of Photochemistry and Photobiology A: Chemistry*, **2018**, 358, 374-378	4.7	13
173	The effect of the functional ionic group of the viologen derivative on visible-light driven CO reduction to formic acid with the system consisting of water-soluble zinc porphyrin and formate dehydrogenase. *Photochemical and Photobiological Sciences*, **2018**, 17, 60-68	4.2	17
172	Activation of the catalytic function of formaldehyde dehydrogenase for formate reduction by single-electron reduced methylviologen. *New Journal of Chemistry*, **2018**, 42, 18508-18512	3.6	0
171	Light-driven CO2 Reduction to Formic Acid with a Hybrid System of Biocatalyst and Semiconductor Based Photocatalyst. *Chemistry Letters*, **2018**, 47, 1505-1508	1.7	4
170	Visible light-induced reduction system of diphenylviologen derivative with water-soluble porphyrin for biocatalytic carbon–carbon bond formation from CO2. *Pure and Applied Chemistry*, **2018**, 90, 1723-1733	2.1	3

169	Abnormal co-enzymatic behavior of a one-electron reduced bipyridinium salt with a carbamoyl group on the catalytic activity of CO2 reduction by formate dehydrogenase. *New Journal of Chemistry*, **2018**, 42, 15556-15560	3.6	8
168	Formate dehydrogenase for CO2 utilization and its application. *Journal of CO2 Utilization*, **2018**, 26, 623-631	7.1	42
167	CO Photoreduction by Formate Dehydrogenase and a Ru-Complex in a Nanoporous Glass Reactor. *ACS Applied Materials & Interfaces*, **2017**, 9, 3260-3265	9.5	25
166	Viologens for Coenzymes of Biocatalysts with the Function of CO2 Reduction and Utilization. *Chemistry Letters*, **2017**, 46, 780-788	1.7	29
165	Biological approaches to artificial photosynthesis, fundamental processes and theoretical approaches: general discussion. *Faraday Discussions*, **2017**, 198, 147-168	3.6	
164	Development of a dye molecule-biocatalyst hybrid system with visible-light induced carbon-carbon bond formation from CO as a feedstock. *Faraday Discussions*, **2017**, 198, 73-81	3.6	11
163	Artificial Photosynthesis for Carbon Dioxide Reduction and Conversion. *Hyomen Kagaku*, **2017**, 38, 297-302		
162	A novel electron carrier molecule based on a viologen derivative for visible light-driven CO2 reduction to formic acid with the system of zinc porphyrin and formate dehydrogenase. *Sustainable Energy and Fuels*, **2017**, 1, 1730-1733	5.8	20
161	An Artificial Co-enzyme Based on the Viologen Skeleton for Highly Efficient CO2 Reduction to Formic Acid with Formate Dehydrogenase. *ChemCatChem*, **2017**, 9, 833-838	5.2	32
160	Ethanol synthesis based on the photoredox system consisting of photosensitizer and dehydrogenases. *Applied Catalysis B: Environmental*, **2016**, 180, 403-407	21.8	12
159	Light-induced hydrogen production by photosystem I–Pt nanoparticle conjugates immobilized in porous glass plate nanopores. *Research on Chemical Intermediates*, **2016**, 42, 7731-7742	2.8	4
158	Biohydrogen and bio/mimetic solar energy conversion. *Research on Chemical Intermediates*, **2016**, 42, 7675-7677	2.8	
157	Novel Artificial Coenzyme Based on Reduced Form of Diquat for Formate Dehydrogenase in the Catalytic Conversion of CO2to Formic Acid. *Chemistry Letters*, **2016**, 45, 907-909	1.7	16
156	Novel Artificial Coenzyme Based on the Viologen Derivative for CO2Reduction Biocatalyst Formate Dehydrogenase. *Chemistry Letters*, **2016**, 45, 1259-1261	1.7	24
155	Light-energy conversion systems for hydrogen production and photocurrent generation using zinc chlorin derivatives. *Research on Chemical Intermediates*, **2016**, 42, 7743-7752	2.8	
154	Photoelectrochemical starch-O2 biofuel cell consisting of chlorophyll derivative-sensitized TiO2 anode and enzyme-based cathode. *Research on Chemical Intermediates*, **2016**, 42, 7761-7770	2.8	4
153	Solar hydrogen production from cellulose biomass with enzymatic and artificial photosynthesis system. *Research on Chemical Intermediates*, **2016**, 42, 7753-7759	2.8	3
152	Effect of chemical structure of bipyridinium salts as electron carrier on the visible-light induced conversion of CO2 to formic acid with the system consisting of water-soluble zinc porphyrin and formate dehydrogenase. *Journal of Photochemistry and Photobiology A: Chemistry*, **2015**, 313, 149-153	4.7	44

151	Photoinduced hydrogen production with photosensitization of Zn chlorophyll analog dimer as a photosynthetic special pair model. *International Journal of Hydrogen Energy*, **2015**, 40, 5313-5318	6.7	5
150	Formate dehydrogenase catalyzedCO2reduction in a chlorin-e6sensitized photochemical biofuel cell. *Journal of Porphyrins and Phthalocyanines*, **2015**, 19, 459-464	1.8	6
149	Discovery of the Reduced Form of Methylviologen Activating Formate Dehydrogenase in the Catalytic Conversion of Carbon Dioxide to Formic Acid. *Chemistry Letters*, **2015**, 44, 1182-1184	1.7	35
148	Formate dehydrogenase viologen-immobilized electrode for CO2 conversion, for development of an artificial photosynthesis system. *Research on Chemical Intermediates*, **2014**, 40, 3267-3276	2.8	23
147	Immobilization of photosystem I or II complexes on electrodes for preparation of photoenergy-conversion devices. *Research on Chemical Intermediates*, **2014**, 40, 3287-3293	2.8	7
146	Visible-light induced hydrogen and formic acid production from biomass and carbon dioxide with enzymatic and artificial photosynthesis system. *International Journal of Hydrogen Energy*, **2014**, 39, 20771-20776	6.7	11
145	Self-assembly of the light-harvesting complex of photosystem II (LHCII) on alkanethiol-modified gold electrodes. *Research on Chemical Intermediates*, **2014**, 40, 3277-3285	2.8	1
144	Artificial photosynthesis by using chloroplasts from spinach adsorbed on a nanocrystalline TiO2 electrode for photovoltaic conversion. *Research on Chemical Intermediates*, **2014**, 40, 3257-3265	2.8	9
143	Immobilization and Photocurrent Activity of a Light-Harvesting Antenna Complex II, LHCII, Isolated from a Plant on Electrodes.. *ACS Macro Letters*, **2012**, 1, 296-299	6.6	47
142	A fast-response pressure sensor based on a dye-adsorbed silica nanoparticle film. *Sensors and Actuators B: Chemical*, **2012**, 171-172, 343-349	8.5	38
141	Development of Artificial Leaf for Solar Hydrogen Production. *Energy Procedia*, **2012**, 29, 21-25	2.3	5
140	Artificial leaf device for solar fuel production. *Faraday Discussions*, **2012**, 155, 289-96; discussion 297-308	3.6	33
139	Solar Fuel Production Based on the Artificial Photosynthesis System. *ChemCatChem*, **2011**, 3, 458-474	5.2	94
138	Hydrolysis of a mixture of saccharides by cellulase from Aspergillus niger and its application for visible-light-induced hydrogen gas production system using Mg chlorophyll-a and platinum nanoparticles. *International Journal of Hydrogen Energy*, **2010**, 35, 6624-6628	6.7	12
137	Effect of manganese and calcium ions on the photoinduced water oxidation with photosynthesis organ grana from green plant. *Applied Catalysis B: Environmental*, **2010**, 97, 36-40	21.8	2
136	Photochemical and enzymatic methanol synthesis from HCO3 by dehydrogenases using water-soluble zinc porphyrin in aqueous media. *Applied Catalysis B: Environmental*, **2009**, 86, 109-113	21.8	36
135	Photoinduced Hydrogen Production with Artificial Photosynthesis System Based on Carotenoid Chlorophyll Conjugated Micelles. *Journal of Physical Chemistry C*, **2009**, 113, 16811-16815	3.8	26
134	Optical oxygen sensor devices using metalloporphyrins. *Journal of Porphyrins and Phthalocyanines*, **2009**, 13, 1111-1122	1.8	44

133	Photosynthesis Organ Grana from Spinach Adsorbed Nanocrystalline TiO2 Electrode for Photovoltaic Conversion Device. *Electrochemistry*, **2009**, 77, 862-864	1.2	6
132	Photoinduced Hydrogen Production with a Platinum Nanoparticle and Light-Harvesting Chlorophylla/bProtein Complex of Photosystem II (LHCII) fromSpinachSystem. *Bulletin of the Chemical Society of Japan*, **2009**, 82, 93-95	5.1	7
131	Photoinduced biohydrogen production from saccharide mixture with the photosensitization of Mg chlorophyll a from green plant. *Catalysis Communications*, **2008**, 9, 131-134	3.2	18
130	Effect of Mn ion on the visible light induced water oxidation activity of photosynthetic organ grana from spinach. *Catalysis Communications*, **2008**, 10, 217-220	3.2	3
129	Unsteady Measurement of a Transonic Delta Wing Flow by a Novel PSP **2008**,		10
128	Photoenergy Conversion System Based on the Photosynthesis Dyes Conjugated Nanoparticle. *Current Nanoscience*, **2008**, 4, 45-52	1.4	15
127	3S4-1 Energy invention based on photosynthesis reaction(3S4 New trend of photosynthesis =New energy innovation based on the photosynthesis=,The 46th Annual Meeting of the Biophysical Society of Japan). *Seibutsu Butsuri*, **2008**, 48, S17	0	
126	Photoinduced biohydrogen production from biomass. *International Journal of Molecular Sciences*, **2008**, 9, 1156-72	6.3	10
125	Visible light-operated saccharideO2 biofuel cell based on the photosensitization of chlorophyll derivative on TiO2 film. *International Journal of Hydrogen Energy*, **2008**, 33, 2845-2849	6.7	26
124	Artificial Photosynthesis System Using Mg Chlorophyll-a Conjugated Nanocrystalline TiO2 Film Electrode via the Axial Imidazole-4-Acetic Acid Ligand. *Journal of Biobased Materials and Bioenergy*, **2008**, 2, 51-56	1.4	6
123	Visible Light Induced Water Oxidation in Photosynthesis from Green Plants **2008**, 1253-1256		
122	Visible light and enzymatic induced synthesis of malic acid from pyruvic acid and HCO3- with the combination system of zinc chlorophyll derivative and malic enzyme in water media. *Catalysis Communications*, **2007**, 8, 523-526	3.2	20
121	Photovoltaic conversion using Zn chlorophyll derivative assembled in hydrophobic domain onto nanocrystalline TiO2 electrode. *Biosensors and Bioelectronics*, **2007**, 22, 1561-5	11.8	28
120	Chlorophyll assembled electrode for photovoltaic conversion device. *Electrochimica Acta*, **2007**, 53, 42-45	3.7	12
119	Photochemical and enzymatic synthesis of methanol from formaldehyde with alcohol dehydrogenase from Saccharomyces cerevisiae and water-soluble zinc porphyrin. *Journal of Molecular Catalysis B: Enzymatic*, **2007**, 44, 27-31		8
118	Optical oxygen-sensing properties of porphyrin derivatives anchored on ordered porous aluminium oxide plates. *Photochemical and Photobiological Sciences*, **2007**, 6, 794-803	4.2	14
117	Photochemical and Enzymatic Synthesis of Malic Acid from Pyruvic Acid and HCO3- with Combination System of Zinc Chlorin-e6 and Malic Enzyme in Aqueous Medium. *Journal of the Japan Petroleum Institute*, **2007**, 50, 272-277	1	10
116	Visible light-operated glucose-O2 biofuel cell. *International Journal of Global Energy Issues*, **2007**, 28, 295	0.3	12

115	Development of Chlorophyll Immobilized Metal Nano-particle for Water Photolysis. *Hosokawa Powder Technology Foundation ANNUAL REPORT*, **2007**, 15, 96-100	0	
114	Preparation of intercalation compounds of carbon fibers through electrolysis using phosphoric acid electrolyte and their exfoliation. *Journal of Physics and Chemistry of Solids*, **2006**, 67, 1178-1181	3.9	10
113	Photochemical and enzymatic synthesis of formic acid from CO2 with chlorophyll and dehydrogenase system. *Catalysis Communications*, **2006**, 7, 173-176	3.2	64
112	Photochemical and photophysical properties of carotenoid immobilized on a surfactant micellar medium including chlorophyll as an artificial photosynthesis system. *Biophysics (Nagoya-shi, Japan)*, **2006**, 2, 57-61		5
111	Photochemical Synthesis of Methanol from Formaldehyde Using Alcohol Dehydrogenase Coupled with Photosensitization of Zinc Porphyrin. *Journal of the Japan Petroleum Institute*, **2006**, 49, 202-205	1	2
110	Photoinduced hydrogen production with chlorophyll-platinum nano-conjugated micellar system. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2006**, 284-285, 384-387	5.1	15
109	Photovoltaic conversion system using carotenoid-chlorophyll assembled TiO2 film electrode. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2006**, 284-285, 623-626	5.1	2
108	Biohydrogen production with the light-harvesting function of grana from spirulina and colloidal platinum. *International Journal of Hydrogen Energy*, **2006**, 31, 39-42	6.7	22
107	Materials for Luminescent Pressure-Sensitive Paint **2005**, 303-322		11
106	Green process for hydrogen production from cellulose derivative using visible light-harvesting function of Mg chlorophyll-a. *Green Chemistry*, **2005**, 7, 742	10	14
105	Near-IR light-sensitized voltaic conversion system using nanocrystalline TiO2 film by Zn chlorophyll derivative aggregate. *Langmuir*, **2005**, 21, 3008-12	4	39
104	Optical CO(2) sensor of the combination of colorimetric change of alpha-naphtholphthalein in poly(isobutyl methacrylate) and fluorescent porphyrin in polystyrene. *Talanta*, **2005**, 66, 976-81	6.2	17
103	Visible-Light Sensitisation of Nanocrystalline TiO2Film by Mg Chlorophyll-athrough the Axial Imidazole-4-acetic Acid Ligand. *Bulletin of the Chemical Society of Japan*, **2005**, 78, 132-134	5.1	5
102	Biohydrogen Production from Sucrose Using the Light-Harvesting Function of Zinc Chlorophyll-a. *Bulletin of the Chemical Society of Japan*, **2005**, 78, 622-625	5.1	5
101	Rapid responsible optical CO2 sensor of the combination of colorimetric change of □naphtholphthalein in poly(trimethylsiliylpropyne) layer and internal reference fluorescent porphyrin in polystyrene layer. *Reactive and Functional Polymers*, **2005**, 63, 35-41	4.6	12
100	An optical sensor with the combination of colorimetric change of □naphtholphthalein and internal reference luminescent dye for CO2 in water. *Sensors and Actuators B: Chemical*, **2005**, 107, 861-865	8.5	30
99	Photoreduction behavior of cytochrome c by zinc porphyrin in lipid media. *Journal of Photochemistry and Photobiology B: Biology*, **2005**, 79, 89-92	6.7	1
98	Redox and photochemical behaviour of a porphyrin monolayer on an indium-tin oxide electrode. *Electrochimica Acta*, **2005**, 51, 677-683	6.7	21

97	Light-harvesting properties of zinc complex of chlorophyll-a from spirulina in surfactant micellar media. *BioMetals*, **2005**, 18, 15-21	3.4	14
96	Novel Optical CO2 Sensing Material: pH Indicator Immobilized in Fluorine-Containing Poly(aryl ether ketone) Films. *Sensor Letters*, **2005**, 3, 168-173	0.9	2
95	Materials for Luminescent Pressure-Sensitive Paint **2005**, 303-322		1
94	Photovoltaic Cell Based on the Near-IR Sensitization of Zn Chlorin-e6 Adsorbed on a Nanocrystalline TiO2 Film Electrode. *Journal of the Japan Petroleum Institute*, **2004**, 47, 406-409	1	6
93	Adsorptive pressure-sensitive coatings on porous anodized aluminium. *Measurement Science and Technology*, **2004**, 15, 489-500	2	89
92	Photochemical synthesis of formic acid from CO2 with formate dehydrogenase and water-soluble zinc porphyrin. *Journal of Molecular Catalysis B: Enzymatic*, **2004**, 27, 121-125		71
91	Novel optical oxygen sensing material: 1-pyrenedecanoic acid and perfluorodecanoic acid chemisorbed onto anodic oxidized aluminium plate. *Sensors and Actuators B: Chemical*, **2004**, 99, 130-133	8.5	18
90	Preparation and properties of dye-sensitized solar cell using chlorophyll derivative immobilized TiO2 film electrode. *Journal of Photochemistry and Photobiology A: Chemistry*, **2004**, 164, 47-51	4.7	49
89	Optical CO2 sensor with the combination of colorimetric change of □naphtholphthalein and internal reference fluorescent porphyrin dye. *Sensors and Actuators B: Chemical*, **2004**, 100, 347-351	8.5	50
88	Bio-photovoltaic conversion device using chlorine-e6 derived from chlorophyll from Spirulina adsorbed on a nanocrystalline TiO2 film electrode. *Biosensors and Bioelectronics*, **2004**, 19, 843-7	11.8	91
87	Lactic acid production with lactate dehydrogenase using the visible light sensitization of zinc porphyrin. *Photochemical and Photobiological Sciences*, **2004**, 3, 681-3	4.2	18
86	Optimising oxygen-sensitivity of optical sensor using pyrene carboxylic acid by myristic acid co-chemisorption onto anodic oxidized aluminium plate. *Talanta*, **2004**, 62, 655-60	6.2	12
85	Visible Light-induced Formic Acid Synthesis from HCO3□with Formate Dehydrogenase and Water-soluble Zinc Porphyrin. *Journal of the Japan Petroleum Institute*, **2004**, 47, 27-31	1	40
84	Photochemical and Enzymatic Synthesis of Methanol from HCO3□with Dehydrogenases and Zinc Porphyrin. *Chemistry Letters*, **2004**, 33, 1544-1545	1.7	34
83	Hydrogen Production from Cellulose Derivative with the System Containing Mg Chlorophyll-a and Platinum Colloid. *Polymer Journal*, **2004**, 36, 352-355	2.7	5
82	Optical Oxygen Sensing Properties of 1-Pyrenedodecanoic Acid and Perfluorocarboxylic Acid Chemisorbed onto Anodic Oxidized Aluminium Plate. *Sensor Letters*, **2004**, 2, 232-237	0.9	2
81	Photo-operated Glucose-O2 Biofuel Cell Based on the Visible-light Photosensitization of Chlorophyll Derivatives Adsorbed on Nanocrystalline TiO2 Film. *Journal of the Japan Petroleum Institute*, **2004**, 47, 355-358	1	4
80	Dye-sensitized solar cell with the near-infrared sensitization of aluminum phthalocyanine. *Journal of Porphyrins and Phthalocyanines*, **2003**, 07, 131-136	1.8	17

79	Optical CO2Sensor with the Combination of Colorimetric Change of pH Indicator and Internal Reference Luminescent Dye. *Bulletin of the Chemical Society of Japan*, **2003**, 76, 1459-1462	5.1	7
78	Visible and near-IR light induced biohydrogen production using the system containing Mg chlorophyll-a from Spirulina and colloidal platinum. *BioMetals*, **2003**, 16, 419-24	3.4	37
77	Optical sensor for carbon dioxide combining colorimetric change of a pH indicator and a reference luminescent dye. *Analytical and Bioanalytical Chemistry*, **2003**, 376, 642-6	4.4	32
76	Probes and Polymers for Optical Sensing of Oxygen. *Mikrochimica Acta*, **2003**, 143, 1-12	5.8	353
75	Bio-mimetic hydrogen production from polysaccharide using the visible light sensitization of zinc porphyrin. *Biotechnology and Bioengineering*, **2003**, 82, 710-4	4.9	26
74	Optical oxygen sensing materials: chemisorption film of ruthenium(II) polypyridyl complexes attached to anionic polymer. *Sensors and Actuators B: Chemical*, **2003**, 88, 162-167	8.5	34
73	Optical oxygen sensor based on controlling the excimer formation of pyrene-1-butylic acid chemisorption layer onto nano-porous anodic oxidized aluminium plate by myristic acid. *Sensors and Actuators B: Chemical*, **2003**, 89, 58-61	8.5	35
72	An optical sensor for CO2 using thymol blue and europium(III) complex composite film. *Sensors and Actuators B: Chemical*, **2003**, 92, 98-101	8.5	26
71	Highly efficient photochemical hydrogen production system using zinc porphyrin and hydrogenase in CTAB micellar system. *Solar Energy Materials and Solar Cells*, **2003**, 79, 103-111	6.4	44
70	Biohydrogen production from sucrose using the visible light sensitization of artificial Zn chlorophyll-a. *Bioconjugate Chemistry*, **2003**, 14, 268-72	6.3	14
69	Dye-Sensitized Solar Cell Using a TiO2 Nanocrystalline Film Electrode Modified by an Aluminum Phthalocyanine and Myristic Acid Coadsorption Layer. *Langmuir*, **2003**, 19, 8872-8875	4	42
68	Characterization of an ultrathin polymer optode and its application to temperature sensors based on luminescent europium complexes. *Journal of Materials Chemistry*, **2003**, 13, 2875		105
67	Photoinduced Hydrogen Production from Cellulose Derivative with Chlorophyll-a and Platinum Nanoparticles System. *Energy & Fuels*, **2003**, 17, 1641-1644	4.1	28
66	Photoinduced Hydrogen Production from D-Maltose in the Presence of Chlorophyll a and Pt Colloid. *Journal of the Japan Petroleum Institute*, **2003**, 46, 259-263	1	2
65	Dye-sensitized Solar Cell with the Electrode of Chlorophyll Derivative Adsorbed on Titanium Dioxide Film. *Electrochemistry*, **2003**, 71, 174-176	1.2	7
64	Photoinduced hydrogen production with the system containing water-soluble viologen-linked porphyrins and hydrogenase. *Journal of Molecular Catalysis B: Enzymatic*, **2002**, 17, 9-21		32
63	1-Pyrenedecanoic acid chemisorption film as a novel oxygen sensing material. *Sensors and Actuators B: Chemical*, **2002**, 85, 175-178	8.5	20
62	Photoinduced hydrogen production with water-soluble zinc porphyrin and hydrogenase in nonionic surfactant micellar system. *International Journal of Hydrogen Energy*, **2002**, 27, 621-625	6.7	22

61	Novel optical oxygen sensing material: metalloporphyrin dispersed in fluorinated poly(aryl ether ketone) films. *European Polymer Journal*, **2002**, 38, 675-681	5.2	27
60	Optical oxygen sensor based on fluorescence change of pyrene-1-butyric acid chemisorption film on an anodic oxidation aluminium plate. *Analytica Chimica Acta*, **2002**, 471, 25-32	6.6	26
59	Photoinduced H2 production with Mg chlorophyll-a from Spirulina and colloidal platinum by visible light. *Biotechnology Letters*, **2002**, 24, 775-778	3	8
58	Visible light induced hydrogen production with Mg chlorophyll-a from spirulina and colloidal platinum. *BioMetals*, **2002**, 15, 391-5	3.4	24
57	H2 production from maltose derived from starch using the visible light, photosensitization of Mg chlorophyll-a from Spirulina. *Biotechnology Letters*, **2002**, 24, 1647-1650	3	6
56	Bio-CO2 fixation with formate dehydrogenase from Saccharomyces cerevisiae and water-soluble zinc porphyrin by visible light. *Biotechnology Letters*, **2002**, 24, 1931-1934	3	65
55	Visible light-induced H2 production from cellulose using photosensitization of Mg chlorophyll a. *Biotechnology Letters*, **2002**, 24, 1935-1938	3	11
54	Near-infrared sensitization solar cell with the electrode of aluminium phthalocyanine adsorbed on nanocrystalline titanium dioxide film. *Journal of Porphyrins and Phthalocyanines*, **2002**, 06, 211-216	1.8	12
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