

# Yutaka Amao

## List of Publications by Citations

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204  
papers

4,117  
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34  
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222  
ext. papers

4,583  
ext. citations

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avg, IF

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#	Paper	IF	Citations
204	Probes and Polymers for Optical Sensing of Oxygen. <i>Mikrochimica Acta</i> , <b>2003</b> , 143, 1-12	5.8	353
203	Green luminescent iridium(III) complex immobilized in fluoropolymer film as optical oxygen-sensing material. <i>Analytica Chimica Acta</i> , <b>2001</b> , 445, 177-182	6.6	107
202	Characterization of an ultrathin polymer optode and its application to temperature sensors based on luminescent europium complexes. <i>Journal of Materials Chemistry</i> , <b>2003</b> , 13, 2875		105
201	Solar Fuel Production Based on the Artificial Photosynthesis System. <i>ChemCatChem</i> , <b>2011</b> , 3, 458-474	5.2	94
200	Bio-photovoltaic conversion device using chlorine-e6 derived from chlorophyll from Spirulina adsorbed on a nanocrystalline TiO <sub>2</sub> film electrode. <i>Biosensors and Bioelectronics</i> , <b>2004</b> , 19, 843-7	11.8	91
199	Adsorptive pressure-sensitive coatings on porous anodized aluminium. <i>Measurement Science and Technology</i> , <b>2004</b> , 15, 489-500	2	89
198	Platinum tetrakis(pentafluorophenyl)porphyrin immobilized in polytrifluoroethylmethacrylate film as a photostable optical oxygen detection material. <i>Journal of Fluorine Chemistry</i> , <b>2001</b> , 107, 101-106	2.1	89
197	Photochemical synthesis of formic acid from CO <sub>2</sub> with formate dehydrogenase and water-soluble zinc porphyrin. <i>Journal of Molecular Catalysis B: Enzymatic</i> , <b>2004</b> , 27, 121-125		71
196	Bio-CO <sub>2</sub> fixation with formate dehydrogenase from <i>Saccharomyces cerevisiae</i> and water-soluble zinc porphyrin by visible light. <i>Biotechnology Letters</i> , <b>2002</b> , 24, 1931-1934	3	65
195	Photochemical and enzymatic synthesis of formic acid from CO <sub>2</sub> with chlorophyll and dehydrogenase system. <i>Catalysis Communications</i> , <b>2006</b> , 7, 173-176	3.2	64
194	Optical oxygen sensing based on the luminescence change of metalloporphyrins immobilized in styrene-pentafluorostyrene copolymer film. <i>Analyst, The</i> , <b>2000</b> , 125, 871-875	5	63
193	Novel Pressure-Sensitive Paint for Cryogenic and Unsteady Wind-Tunnel Testing. <i>Journal of Thermophysics and Heat Transfer</i> , <b>2002</b> , 16, 109-115	1.3	53
192	Platinum porphyrin embedded in poly(1-trimethylsilyl-1-propyne)film as an optical sensor for trace analysis of oxygen. <i>Analyst, The</i> , <b>2000</b> , 125, 1911-1914	5	53
191	Optical CO <sub>2</sub> sensor with the combination of colorimetric change of 8-hydroxy-1,2,3,4-tetrahydroquinoline and internal reference fluorescent porphyrin dye. <i>Sensors and Actuators B: Chemical</i> , <b>2004</b> , 100, 347-351	8.5	50
190	Preparation and properties of dye-sensitized solar cell using chlorophyll derivative immobilized TiO <sub>2</sub> film electrode. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2004</b> , 164, 47-51	4.7	49
189	Optical oxygen detection based on luminescence change of metalloporphyrins immobilized in poly(isobutylmethacrylate-co-trifluoroethylmethacrylate) film. <i>Analytica Chimica Acta</i> , <b>2000</b> , 421, 167-174	6.6	49
188	Novel optical oxygen sensing material: platinum porphyrin-fluoropolymer film. <i>Polymers for Advanced Technologies</i> , <b>2000</b> , 11, 705-709	3.2	48

187	Immobilization and Photocurrent Activity of a Light-Harvesting Antenna Complex II, LHCII, Isolated from a Plant on Electrodes.. <i>ACS Macro Letters</i> , <b>2012</b> , 1, 296-299	6.6	47
186	Effect of chemical structure of bipyridinium salts as electron carrier on the visible-light induced conversion of CO <sub>2</sub> to formic acid with the system consisting of water-soluble zinc porphyrin and formate dehydrogenase. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2015</b> , 313, 149-153	4.7	44
185	Optical oxygen sensor devices using metalloporphyrins. <i>Journal of Porphyrins and Phthalocyanines</i> , <b>2009</b> , 13, 1111-1122	1.8	44
184	Highly efficient photochemical hydrogen production system using zinc porphyrin and hydrogenase in CTAB micellar system. <i>Solar Energy Materials and Solar Cells</i> , <b>2003</b> , 79, 103-111	6.4	44
183	Novel optical oxygen sensing material: platinum octaethylporphyrin immobilized in a copolymer film of isobutyl methacrylate and tetrafluoropropyl methacrylate. <i>Reactive and Functional Polymers</i> , <b>2001</b> , 47, 49-54	4.6	43
182	Dye-Sensitized Solar Cell Using a TiO <sub>2</sub> Nanocrystalline Film Electrode Modified by an Aluminum Phthalocyanine and Myristic Acid Coadsorption Layer. <i>Langmuir</i> , <b>2003</b> , 19, 8872-8875	4	42
181	Optical Oxygen Sensing Based on the Luminescence Quenching of Europium(III) Complex Immobilized in Fluoropolymer Film. <i>Bulletin of the Chemical Society of Japan</i> , <b>2000</b> , 73, 2663-2668	5.1	42
180	Formate dehydrogenase for CO <sub>2</sub> utilization and its application. <i>Journal of CO<sub>2</sub> Utilization</i> , <b>2018</b> , 26, 623-641	6.4	42
179	Visible Light-induced Formic Acid Synthesis from HCO <sub>3</sub> <sup>-</sup> with Formate Dehydrogenase and Water-soluble Zinc Porphyrin. <i>Journal of the Japan Petroleum Institute</i> , <b>2004</b> , 47, 27-31	1	40
178	Near-IR light-sensitized voltaic conversion system using nanocrystalline TiO <sub>2</sub> film by Zn chlorophyll derivative aggregate. <i>Langmuir</i> , <b>2005</b> , 21, 3008-12	4	39
177	Oxygen sensing based on lifetime of photoexcited triplet state of platinum porphyrin-polystyrene film using time-resolved spectroscopy. <i>Journal of Porphyrins and Phthalocyanines</i> , <b>2000</b> , 04, 292-299	1.8	39
176	A fast-response pressure sensor based on a dye-adsorbed silica nanoparticle film. <i>Sensors and Actuators B: Chemical</i> , <b>2012</b> , 171-172, 343-349	8.5	38
175	Visible and near-IR light induced biohydrogen production using the system containing Mg chlorophyll-a from Spirulina and colloidal platinum. <i>BioMetals</i> , <b>2003</b> , 16, 419-24	3.4	37
174	Photochemical and enzymatic methanol synthesis from HCO <sub>3</sub> <sup>-</sup> by dehydrogenases using water-soluble zinc porphyrin in aqueous media. <i>Applied Catalysis B: Environmental</i> , <b>2009</b> , 86, 109-113	21.8	36
173	Photophysical and Photochemical Properties of Optical Oxygen Pressure Sensor of Platinum Porphyrin- <i>t</i> -butylmethacrylate- <i>r</i> -trifluoroethylmethacrylate Copolymer Film. <i>Polymer Journal</i> , <b>1999</b> , 31, 1267-1269	2.7	36
172	Discovery of the Reduced Form of Methylviologen Activating Formate Dehydrogenase in the Catalytic Conversion of Carbon Dioxide to Formic Acid. <i>Chemistry Letters</i> , <b>2015</b> , 44, 1182-1184	1.7	35
171	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. <i>Sensors and Actuators B: Chemical</i> , <b>2003</b> , 89, 58-61	8.5	35
170	Optical oxygen sensing materials: chemisorption film of ruthenium(II) polypyridyl complexes attached to anionic polymer. <i>Sensors and Actuators B: Chemical</i> , <b>2003</b> , 88, 162-167	8.5	34

169	Photochemical and Enzymatic Synthesis of Methanol from HCO <sub>3</sub> <sup>-</sup> with Dehydrogenases and Zinc Porphyrin. <i>Chemistry Letters</i> , <b>2004</b> , 33, 1544-1545	1.7	34
168	Artificial leaf device for solar fuel production. <i>Faraday Discussions</i> , <b>2012</b> , 155, 289-96; discussion 297-308	3.6	33
167	An Artificial Co-enzyme Based on the Viologen Skeleton for Highly Efficient CO <sub>2</sub> Reduction to Formic Acid with Formate Dehydrogenase. <i>ChemCatChem</i> , <b>2017</b> , 9, 833-838	5.2	32
166	Photoinduced hydrogen production with the system containing water-soluble viologen-linked porphyrins and hydrogenase. <i>Journal of Molecular Catalysis B: Enzymatic</i> , <b>2002</b> , 17, 9-21		32
165	Optical sensor for carbon dioxide combining colorimetric change of a pH indicator and a reference luminescent dye. <i>Analytical and Bioanalytical Chemistry</i> , <b>2003</b> , 376, 642-6	4.4	32
164	Photoredox systems with biocatalysts for CO <sub>2</sub> utilization. <i>Sustainable Energy and Fuels</i> , <b>2018</b> , 2, 1928-1958	5.8	31
163	An optical sensor with the combination of colorimetric change of 8-haphtholphthalein and internal reference luminescent dye for CO <sub>2</sub> in water. <i>Sensors and Actuators B: Chemical</i> , <b>2005</b> , 107, 861-865	8.5	30
162	Viologens for Coenzymes of Biocatalysts with the Function of CO <sub>2</sub> Reduction and Utilization. <i>Chemistry Letters</i> , <b>2017</b> , 46, 780-788	1.7	29
161	Photovoltaic conversion using Zn chlorophyll derivative assembled in hydrophobic domain onto nanocrystalline TiO <sub>2</sub> electrode. <i>Biosensors and Bioelectronics</i> , <b>2007</b> , 22, 1561-5	11.8	28
160	Photoinduced Hydrogen Production from Cellulose Derivative with Chlorophyll-a and Platinum Nanoparticles System. <i>Energy &amp; Fuels</i> , <b>2003</b> , 17, 1641-1644	4.1	28
159	Novel optical oxygen sensing device: a thin film of a palladium porphyrin with a long alkyl chain on an alumina plate. <i>Journal of Materials Chemistry</i> , <b>2000</b> , 10, 305-308		28
158	Photoluminescent oxygen sensing using palladium tetrakis(4-carboxyphenyl)porphyrin self-assembled membrane on alumina. <i>Analytical Communications</i> , <b>1999</b> , 36, 179-180		28
157	Effective photoinduced hydrogen evolution with hydrogenase in surfactant micelles. <i>Journal of Molecular Catalysis A</i> , <b>1996</b> , 105, 125-130		28
156	Novel optical oxygen sensing material: metalloporphyrin dispersed in fluorinated poly(aryl ether ketone) films. <i>European Polymer Journal</i> , <b>2002</b> , 38, 675-681	5.2	27
155	Photoinduced Hydrogen Production with Artificial Photosynthesis System Based on Carotenoid-Chlorophyll Conjugated Micelles. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 16811-16815	3.8	26
154	Visible light-operated saccharide-CO <sub>2</sub> biofuel cell based on the photosensitization of chlorophyll derivative on TiO <sub>2</sub> film. <i>International Journal of Hydrogen Energy</i> , <b>2008</b> , 33, 2845-2849	6.7	26
153	Optical oxygen sensor based on fluorescence change of pyrene-1-butyric acid chemisorption film on an anodic oxidation aluminium plate. <i>Analytica Chimica Acta</i> , <b>2002</b> , 471, 25-32	6.6	26
152	Bio-mimetic hydrogen production from polysaccharide using the visible light sensitization of zinc porphyrin. <i>Biotechnology and Bioengineering</i> , <b>2003</b> , 82, 710-4	4.9	26

151	An optical sensor for CO <sub>2</sub> using thymol blue and europium(III) complex composite film. <i>Sensors and Actuators B: Chemical</i> , <b>2003</b> , 92, 98-101	8.5	26
150	Metalloporphyrins immobilized in styrene- $\beta$ -fluoroethylmethacrylate copolymer film as an optical oxygen sensing probe. <i>Journal of Porphyrins and Phthalocyanines</i> , <b>2001</b> , 05, 433-438	1.8	26
149	CO Photoreduction by Formate Dehydrogenase and a Ru-Complex in a Nanoporous Glass Reactor. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 3260-3265	9.5	25
148	An oxygen sensing system based on the phosphorescence quenching of metalloporphyrin thin film on alumina plates. <i>Analyst, The</i> , <b>2000</b> , 125, 1601-1604	5	25
147	Novel Artificial Coenzyme Based on the Viologen Derivative for CO <sub>2</sub> Reduction Biocatalyst Formate Dehydrogenase. <i>Chemistry Letters</i> , <b>2016</b> , 45, 1259-1261	1.7	24
146	Visible light induced hydrogen production with Mg chlorophyll-a from spirulina and colloidal platinum. <i>BioMetals</i> , <b>2002</b> , 15, 391-5	3.4	24
145	Formate dehydrogenase-viologen-immobilized electrode for CO <sub>2</sub> conversion, for development of an artificial photosynthesis system. <i>Research on Chemical Intermediates</i> , <b>2014</b> , 40, 3267-3276	2.8	23
144	Fluorescence quenching oxygen sensor using an aluminum phthalocyanine-polystyrene film. <i>Analytica Chimica Acta</i> , <b>2000</b> , 407, 41-44	6.6	23
143	Preparation of Polymer Langmuir-Blodgett Films Containing Porphyrin Chromophore. <i>Langmuir</i> , <b>1999</b> , 15, 8673-8677	4	23
142	Biohydrogen production with the light-harvesting function of grana from spirulina and colloidal platinum. <i>International Journal of Hydrogen Energy</i> , <b>2006</b> , 31, 39-42	6.7	22
141	Photoinduced hydrogen production with water-soluble zinc porphyrin and hydrogenase in nonionic surfactant micellar system. <i>International Journal of Hydrogen Energy</i> , <b>2002</b> , 27, 621-625	6.7	22
140	Redox and photochemical behaviour of a porphyrin monolayer on an indium-tin oxide electrode. <i>Electrochimica Acta</i> , <b>2005</b> , 51, 677-683	6.7	21
139	Visible light induced biohydrogen production from sucrose using the photosensitization of Mg chlorophyll-a. <i>Bioconjugate Chemistry</i> , <b>2002</b> , 13, 898-901	6.3	21
138	Oxygen sensing system using triplet-triplet reflectance of zinc porphyrin immobilized in polymer membrane studies by laser flash photolysis. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2000</b> , 132, 81-86	4.7	21
137	A novel electron carrier molecule based on a viologen derivative for visible light-driven CO <sub>2</sub> reduction to formic acid with the system of zinc porphyrin and formate dehydrogenase. <i>Sustainable Energy and Fuels</i> , <b>2017</b> , 1, 1730-1733	5.8	20
136	Visible light and enzymatic induced synthesis of malic acid from pyruvic acid and HCO <sub>3</sub> <sup>-</sup> with the combination system of zinc chlorophyll derivative and malic enzyme in water media. <i>Catalysis Communications</i> , <b>2007</b> , 8, 523-526	3.2	20
135	1-Pyrenedecanoic acid chemisorption film as a novel oxygen sensing material. <i>Sensors and Actuators B: Chemical</i> , <b>2002</b> , 85, 175-178	8.5	20
134	Novel optical oxygen sensing by phosphorescence quenching of palladium porphyrin self-assembled film on alumina plate. <i>Journal of Porphyrins and Phthalocyanines</i> , <b>2000</b> , 04, 179-184	1.8	20

133	Photoinduced hydrogen evolution using water soluble viologen-linked trisulfonatophenylporphyrins (TPPSCnV) with hydrogenase. <i>Journal of Molecular Catalysis A</i> , <b>1997</b> , 126, 21-26		18
132	Photoinduced biohydrogen production from saccharide mixture with the photosensitization of Mg chlorophyll a from green plant. <i>Catalysis Communications</i> , <b>2008</b> , 9, 131-134	3.2	18
131	Novel optical oxygen sensing material: 1-pyrenedecanoic acid and perfluorodecanoic acid chemisorbed onto anodic oxidized aluminium plate. <i>Sensors and Actuators B: Chemical</i> , <b>2004</b> , 99, 130-133	8.5	18
130	Lactic acid production with lactate dehydrogenase using the visible light sensitization of zinc porphyrin. <i>Photochemical and Photobiological Sciences</i> , <b>2004</b> , 3, 681-3	4.2	18
129	An Optical Sensing Material for Trace Analysis of Oxygen. Metalloporphyrin Dispersed in Poly(1-trimethylsilyl-1-propyne) Film. <i>Polymer Journal</i> , <b>2002</b> , 34, 411-417	2.7	18
128	Synthesis and characterization of water soluble viologen linked zinc porphyrins. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>1996</b> , 98, 59-64	4.7	18
127	Photoinduced Hydrogen Evolution with Hydrogenase and Water-soluble Viologen-linked Zinc Porphyrins. <i>Journal of Porphyrins and Phthalocyanines</i> , <b>1998</b> , 02, 201-207	1.8	17
126	Optical CO <sub>2</sub> sensor of the combination of colorimetric change of alpha-naphtholphthalein in poly(isobutyl methacrylate) and fluorescent porphyrin in polystyrene. <i>Talanta</i> , <b>2005</b> , 66, 976-81	6.2	17
125	Dye-sensitized solar cell with the near-infrared sensitization of aluminum phthalocyanine. <i>Journal of Porphyrins and Phthalocyanines</i> , <b>2003</b> , 07, 131-136	1.8	17
124	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. <i>Photochemical and Photobiological Sciences</i> , <b>2018</b> , 17, 60-68	4.2	17
123	Methanol production from CO <sub>2</sub> with the hybrid system of biocatalyst and organo-photocatalyst. <i>Catalysis Today</i> , <b>2018</b> , 307, 243-247	5.3	16
122	Novel Artificial Coenzyme Based on Reduced Form of Diquat for Formate Dehydrogenase in the Catalytic Conversion of CO <sub>2</sub> to Formic Acid. <i>Chemistry Letters</i> , <b>2016</b> , 45, 907-909	1.7	16
121	Effective Artificial Co-enzyme Based on Single-Electron Reduced Form of 2,2'-Bipyridinium Salt Derivatives for Formate Dehydrogenase in the Catalytic Conversion of CO <sub>2</sub> to Formic Acid. <i>Bulletin of the Chemical Society of Japan</i> , <b>2018</b> , 91, 1369-1376	5.1	16
120	Effect of cationic surfactant on photoinduced hydrogen evolution with hydrogenase. <i>Journal of Molecular Catalysis A</i> , <b>1995</b> , 103, L69-L71		16
119	Photoenergy Conversion System Based on the Photosynthesis Dyes Conjugated Nanoparticle. <i>Current Nanoscience</i> , <b>2008</b> , 4, 45-52	1.4	15
118	Photoinduced hydrogen production with chlorophyll-platinum nano-conjugated micellar system. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2006</b> , 284-285, 384-387	5.1	15
117	Thenoyltrifluoroacetato 1,10-Phenanthroline Europium (III) Complex Immobilized in Fluoropolymer Film as Optical Oxygen Sensing Material. <i>Chemistry Letters</i> , <b>2000</b> , 29, 934-935	1.7	15
116	Novel optical oxygen sensing material: platinum porphyrin-tyrene-pentafluorostyrene copolymer film. <i>Analytical Communications</i> , <b>1999</b> , 36, 367		15



115	Photoelectrochemical CO <sub>2</sub> Reduction to Formate with the Sacrificial Reagent Free System of Semiconductor Photocatalysts and Formate Dehydrogenase. <i>ChemCatChem</i> , <b>2019</b> , 11, 6227-6235	5.2	14
114	The improvement of formic acid production from CO <sub>2</sub> with visible-light energy and formate dehydrogenase by the function of the viologen derivative with carbamoylmethyl group as an electron carrier. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2018</b> , 358, 362-367	4.7	14
113	Optical oxygen-sensing properties of porphyrin derivatives anchored on ordered porous aluminium oxide plates. <i>Photochemical and Photobiological Sciences</i> , <b>2007</b> , 6, 794-803	4.2	14
112	Green process for hydrogen production from cellulose derivative using visible light-harvesting function of Mg chlorophyll-a. <i>Green Chemistry</i> , <b>2005</b> , 7, 742	10	14
111	Biohydrogen production from sucrose using the visible light sensitization of artificial Zn chlorophyll-a. <i>Bioconjugate Chemistry</i> , <b>2003</b> , 14, 268-72	6.3	14
110	Light-harvesting properties of zinc complex of chlorophyll-a from spirulina in surfactant micellar media. <i>BioMetals</i> , <b>2005</b> , 18, 15-21	3.4	14
109	Optical Oxygen Pressure Sensing Based on Triplet-Triplet Quenching of Fullerene/Polystyrene Film Using Laser Flash Photolysis: Soccerballene C <sub>60</sub> Versus Rugbyballene C <sub>70</sub> . <i>Bulletin of the Chemical Society of Japan</i> , <b>1999</b> , 72, 2223-2227	5.1	14
108	Novel Optical Oxygen Pressure Sensing Materials: Platinum Porphyrin-Styrene-Trifluoroethylmethacrylate Copolymer Film. <i>Chemistry Letters</i> , <b>1999</b> , 28, 1031-1032	1.7	13
107	Singlet and triplet excited states dynamics of photosynthetic pigment chlorophyll a investigated by sub-nanosecond pump-probe spectroscopy. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2018</b> , 358, 374-378	4.7	13
106	Ethanol synthesis based on the photoredox system consisting of photosensitizer and dehydrogenases. <i>Applied Catalysis B: Environmental</i> , <b>2016</b> , 180, 403-407	21.8	12
105	Hydrolysis of a mixture of saccharides by cellulase from <i>Aspergillus niger</i> and its application for visible-light-induced hydrogen gas production system using Mg chlorophyll-a and platinum nanoparticles. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 6624-6628	6.7	12
104	Chlorophyll assembled electrode for photovoltaic conversion device. <i>Electrochimica Acta</i> , <b>2007</b> , 53, 42-45.	4.7	12
103	Visible light-operated glucose-O <sub>2</sub> biofuel cell. <i>International Journal of Global Energy Issues</i> , <b>2007</b> , 28, 295	0.3	12
102	Optimising oxygen-sensitivity of optical sensor using pyrene carboxylic acid by myristic acid co-chemisorption onto anodic oxidized aluminium plate. <i>Talanta</i> , <b>2004</b> , 62, 655-60	6.2	12
101	Rapid responsive optical CO <sub>2</sub> sensor of the combination of colorimetric change of 8-hydroxy-1-naphtholphthalein in poly(trimethylsilylpropyne) layer and internal reference fluorescent porphyrin in polystyrene layer. <i>Reactive and Functional Polymers</i> , <b>2005</b> , 63, 35-41	4.6	12
100	Optical Oxygen Sensing Material: Terbium(III) Complex Adsorbed Thin Film. <i>Bulletin of the Chemical Society of Japan</i> , <b>2001</b> , 74, 2445-2449	5.1	12
99	Near-infrared sensitization solar cell with the electrode of aluminium phthalocyanine adsorbed on nanocrystalline titanium dioxide film. <i>Journal of Porphyrins and Phthalocyanines</i> , <b>2002</b> , 06, 211-216	1.8	12
98	Photoluminescent Oxygen Sensing Using Tris(acetylacetonato) 1,10-Phenanthroline Terbium(III) Complex Doped on Alumina Film. <i>Chemistry Letters</i> , <b>2000</b> , 29, 1286-1287	1.7	12

97	Development of a dye molecule-biocatalyst hybrid system with visible-light induced carbon-carbon bond formation from CO as a feedstock. <i>Faraday Discussions</i> , <b>2017</b> , 198, 73-81	3.6	11
96	Visible-light induced hydrogen and formic acid production from biomass and carbon dioxide with enzymatic and artificial photosynthesis system. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 20771-20776	6.7	11
95	Preparation and characterization of water soluble viologen-linked trisulfonatophenylporphyrin (TPPSCnV). <i>Journal of Molecular Catalysis A</i> , <b>1997</b> , 126, 13-20		11
94	Materials for Luminescent Pressure-Sensitive Paint <b>2005</b> , 303-322		11
93	Visible light-induced H <sub>2</sub> production from cellulose using photosensitization of Mg chlorophyll a. <i>Biotechnology Letters</i> , <b>2002</b> , 24, 1935-1938	3	11
92	A novel optical oxygen sensing system based on triplet-triplet reflectance of fullerene C <sub>60</sub> -polystyrene film by time-resolved spectroscopy using diffuse reflectance laser flash photolysis. <i>Analyst, The</i> , <b>2000</b> , 125, 523-526	5	11
91	Can formate dehydrogenase from <i>Candida boidinii</i> catalytically reduce carbon dioxide, bicarbonate, or carbonate to formate?. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 11922-11926	3.6	10
90	Unsteady Measurement of a Transonic Delta Wing Flow by a Novel PSP <b>2008</b> ,		10
89	Photoinduced biohydrogen production from biomass. <i>International Journal of Molecular Sciences</i> , <b>2008</b> , 9, 1156-72	6.3	10
88	Preparation of intercalation compounds of carbon fibers through electrolysis using phosphoric acid electrolyte and their exfoliation. <i>Journal of Physics and Chemistry of Solids</i> , <b>2006</b> , 67, 1178-1181	3.9	10
87	Photochemical and Enzymatic Synthesis of Malic Acid from Pyruvic Acid and HCO <sub>3</sub> <sup>-</sup> with Combination System of Zinc Chlorin-e6 and Malic Enzyme in Aqueous Medium. <i>Journal of the Japan Petroleum Institute</i> , <b>2007</b> , 50, 272-277	1	10
86	Fullerene C <sub>60</sub> immobilized in polymethylmethacrylate film as an optical temperature sensing material. <i>Analisis - European Journal of Analytical Chemistry</i> , <b>2000</b> , 28, 847-849		10
85	Electrochemical Evaluation for Multiple Functions of Pt-loaded TiO <sub>2</sub> Nanoparticles Deposited on a Photocathode. <i>ChemElectroChem</i> , <b>2019</b> , 6, 4859-4866	4.3	9
84	Artificial photosynthesis by using chloroplasts from spinach adsorbed on a nanocrystalline TiO <sub>2</sub> electrode for photovoltaic conversion. <i>Research on Chemical Intermediates</i> , <b>2014</b> , 40, 3257-3265	2.8	9
83	Optical Molecular Thermometer Based on the Fluorescence of Fullerene Dispersed in Poly(methyl methacrylate) Film. <i>Bulletin of the Chemical Society of Japan</i> , <b>2002</b> , 75, 389-391	5.1	9
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