

Haruo Inoue

List of Publications by Year in descending order

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101543

36
h-index

95266

68
g-index

110
all docs

110
docs citations

110
times ranked

3875
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of an Efficient Photocatalytic System for CO ₂ Reduction Using Rhenium(I) Complexes Based on Mechanistic Studies. <i>Journal of the American Chemical Society</i> , 2008, 130, 2023-2031.	13.7	571
2	Porphyrin photochemistry in inorganic/organic hybrid materials: Clays, layered semiconductors, nanotubes, and mesoporous materials. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2006, 7, 104-126.	11.6	245
3	The Water Oxidation Bottleneck in Artificial Photosynthesis: How Can We Get Through It? An Alternative Route Involving a Two-Electron Process. <i>ChemSusChem</i> , 2011, 4, 173-179.	6.8	184
4	Near-Infrared Plasmon-Assisted Water Oxidation. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 1248-1252.	4.6	183
5	Efficient Excited Energy Transfer Reaction in Clay/Porphyrin Complex toward an Artificial Light-Harvesting System. <i>Journal of the American Chemical Society</i> , 2011, 133, 14280-14286.	13.7	180
6	High-Density Adsorption of Cationic Porphyrins on Clay Layer Surfaces without Aggregation: The Size-Matching Effect. <i>Langmuir</i> , 2002, 18, 2265-2272.	3.5	175
7	Direct Detection of Key Reaction Intermediates in Photochemical CO ₂ Reduction Sensitized by a Rhenium Bipyridine Complex. <i>Journal of the American Chemical Society</i> , 2014, 136, 6021-6030.	13.7	171
8	Highly efficient supramolecular photocatalysts for CO ₂ reduction using visible light. <i>Photochemical and Photobiological Sciences</i> , 2007, 6, 454-461.	2.9	136
9	Development of highly efficient supramolecular CO ₂ reduction photocatalysts with high turnover frequency and durability. <i>Faraday Discussions</i> , 2012, 155, 115-127.	3.2	133
10	Size-Matching Effect on Inorganic Nanosheets: Control of Distance, Alignment, and Orientation of Molecular Adsorption as a Bottom-Up Methodology for Nanomaterials. <i>Langmuir</i> , 2013, 29, 2108-2119.	3.5	133
11	Photochemical Energy Transfer of Cationic Porphyrin Complexes on Clay Surface. <i>Journal of Physical Chemistry B</i> , 2002, 106, 5455-5460.	2.6	117
12	Visible light-induced reduction of carbon dioxide sensitized by a porphyrin-rhenium dyad metal complex on p-type semiconducting NiO as the reduction terminal end of an artificial photosynthetic system. <i>Journal of Catalysis</i> , 2014, 310, 57-66.	6.2	116
13	Highly Efficient and Selective Epoxidation of Alkenes by Photochemical Oxygenation Sensitized by a Ruthenium(II) Porphyrin with Water as Both Electron and Oxygen Donor. <i>Journal of the American Chemical Society</i> , 2003, 125, 5734-5740.	13.7	110
14	Molecular Mechanism of Radiationless Deactivation of Aminoanthraquinones through Intermolecular Hydrogen-Bonding Interaction with Alcohols and Hydroperoxides. <i>Journal of Physical Chemistry A</i> , 1997, 101, 8166-8173.	2.5	94
15	Intercalation of Polyfluorinated Surfactants into Clay Minerals and the Characterization of the Hybrid Compounds. <i>Langmuir</i> , 2002, 18, 891-896.	3.5	91
16	Electron Transfer from the Porphyrin S ₂ State in a Zinc Porphyrin-Rhenium Bipyridyl Dyad having Carbon Dioxide Reduction Activity. <i>Journal of Physical Chemistry C</i> , 2009, 113, 11667-11673.	3.1	86
17	The Mechanism of the Porphyrin Spectral Shift on Inorganic Nanosheets: The Molecular Flattening Induced by the Strong Host-Guest Interaction due to the Size-Matching Rule. <i>Journal of Physical Chemistry C</i> , 2012, 116, 7879-7885.	3.1	80
18	High Density Adsorption of Porphyrins onto Clay Layer without Aggregation: Characterization of Smectite-Cationic Porphyrin Complex. <i>Chemistry Letters</i> , 2001, 30, 128-129.	1.3	78

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19	The "size matching rule"™ in di-, tri-, and tetra-cationic charged porphyrin/synthetic clay complexes: effect of the inter-charge distance and the number of charged sites. <i>Journal of Physics and Chemistry of Solids</i> , 2004, 65, 403-407.	4.0	72
20	Light-Harvesting Energy Transfer and Subsequent Electron Transfer of Cationic Porphyrin Complexes on Clay Surfaces. <i>Langmuir</i> , 2006, 22, 1406-1408.	3.5	71
21	Photochemical P-450 Oxygenation of Cyclohexene with Water Sensitized by Dihydroxy-Coordinated (Tetraphenylporphyrinato)antimony(V) Hexafluorophosphate. <i>Journal of the American Chemical Society</i> , 1997, 119, 8712-8713.	13.7	68
22	Efficient Photochemical Oxygenation of Cyclohexene with Water as an Oxygen Donor Sensitized by Dimethoxy-Coordinated Tetraphenylporphyrinatoantimony(V). <i>Journal of the American Chemical Society</i> , 1996, 118, 6311-6312.	13.7	64
23	Novel Methodology To Control the Adsorption Structure of Cationic Porphyrins on the Clay Surface Using the "Size-Matching Rule". <i>Langmuir</i> , 2011, 27, 10722-10729.	3.5	63
24	Photoresponsive Multilayer Spiral Nanotubes: Intercalation of Polyfluorinated Cationic Azobenzene Surfactant into Potassium Niobate. <i>Journal of the American Chemical Society</i> , 2006, 128, 684-685.	13.7	59
25	Enhanced Aggregation Behavior of Antimony(V) Porphyrins in Polyfluorinated Surfactant/Clay Hybrid Microenvironment. <i>Journal of Physical Chemistry B</i> , 2003, 107, 3789-3797.	2.6	55
26	Artificial photosynthesis via two-electron conversion: Photochemical oxygenation sensitized by ruthenium porphyrins with water as both electron and oxygen atom donor. <i>Pure and Applied Chemistry</i> , 2005, 77, 1019-1033.	1.9	55
27	A Photoactivated Artificial Muscle Model Unit: Reversible, Photoinduced Sliding of Nanosheets. <i>Journal of the American Chemical Society</i> , 2011, 133, 17130-17133.	13.7	55
28	Photochemical epoxidation of alkenes by visible light in a redox system involving tetraphenylporphyrinantimony(V) and water. <i>Journal of the Chemical Society Chemical Communications</i> , 1987, , 1681.	2.0	51
29	Hydrophilicity Control of Visible-Light Hydrogen Evolution and Dynamics of the Charge-Separated State in Dye/TiO ₂ /Pt Hybrid Systems. <i>Chemistry - A European Journal</i> , 2012, 18, 15368-15381.	3.3	50
30	Regulation of the Collisional Self-Quenching of Fluorescence in Clay/Porphyrin Complex by Strong Host-Guest Interaction. <i>Journal of Physical Chemistry A</i> , 2012, 116, 12065-12072.	2.5	41
31	One Electron-Initiated Two-Electron Oxidation of Water by Aluminum Porphyrins with Earth's Most Abundant Metal. <i>ChemSusChem</i> , 2017, 10, 1909-1915.	6.8	41
32	Dichroic Measurements on Dicationic and Tetracationic Porphyrins on Clay Surfaces with Visible-Light-Attenuated Total Reflectance. <i>Bulletin of the Chemical Society of Japan</i> , 2007, 80, 1350-1356.	3.2	40
33	Controlling the Microadsorption Structure of Porphyrin Dye Assembly on Clay Surfaces Using the "Size-Matching Rule" for Constructing an Efficient Energy Transfer System. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 811-816.	8.0	38
34	The Orientation Control of Dicationic Porphyrins on Clay Surfaces by Solvent Polarity. <i>Chemistry Letters</i> , 2006, 35, 14-15.	1.3	37
35	Key reaction intermediates of the photochemical oxygenation of alkene sensitized by Rull's porphyrin with water by visible light. <i>Photochemical and Photobiological Sciences</i> , 2010, 9, 931-936.	2.9	37
36	Photochemical epoxidation of cyclohexene sensitized by tetraphenylporphyrinatoantimony(V) in the presence of water acting both as an electron and an oxygen donor. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1994, , 105.	0.9	36

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37	How is the water molecule activated on metalloporphyrins? Oxygenation of substrates induced through one-photon/two-electron conversion in artificial photosynthesis by visible light. <i>Faraday Discussions</i> , 2012, 155, 145-163.	3.2	36
38	Two-electron oxidation of water to form hydrogen peroxide sensitized by di(hydroxo)porphyrin GeIV complex under visible-light irradiation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2015, 313, 131-136.	3.9	35
39	Alternative route to bypass the bottle-neck of water oxidation: Two-electron oxidation of water catalyzed by earth-abundant metalloporphyrins. <i>Coordination Chemistry Reviews</i> , 2018, 377, 64-72.	18.8	34
40	Microscopic Structure and Microscopic Environment of a Polyfluorinated Surfactant/Clay Hybrid Compound: A Photochemical Studies of Rose Bengal. <i>Langmuir</i> , 2002, 18, 4232-4239.	3.5	32
41	Artificial Photosynthesis Sensitized by Metal Complexes: Utilization of a Ubiquitous Element. <i>Electrochemistry</i> , 2014, 82, 475-485.	1.4	32
42	Hydrogen evolution coupled with the photochemical oxygenation of cyclohexene with water sensitized by tin(IV) porphyrins by visible light. <i>Photochemical and Photobiological Sciences</i> , 2014, 13, 154-156.	2.9	32
43	An artificial muscle model unit based on inorganic nanosheet sliding by photochemical reaction. <i>Nanoscale</i> , 2013, 5, 3182.	5.6	31
44	Photochemical Oxygenation of Cyclohexene through Reductive Quenching of Excited Tetraphenylporphyrinatoantimony(V) by Triphenylphosphine. <i>Journal of Organic Chemistry</i> , 1994, 59, 7373-7378.	3.2	30
45	Photochemical electron transfer through the interface of hybrid films of titania nano-sheets and mono-dispersed spherical mesoporous silica particles. <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 4585.	2.8	29
46	Water Splitting on Aluminum Porphyrins To Form Hydrogen and Hydrogen Peroxide by One Photon of Visible Light. <i>ACS Applied Energy Materials</i> , 2019, 2, 8045-8051.	5.1	29
47	Promotive Effect of Bicarbonate Ion on Two-Electron Water Oxidation to Form H_2O_2 Catalyzed by Aluminum Porphyrins. <i>ChemSusChem</i> , 2019, 12, 1939-1948.	6.8	29
48	Intercalation of a Surfactant with a Long Polyfluoroalkyl Chain into a Clay Mineral: Unique Orientation of Polyfluoroalkyl Groups in Clay Layers. <i>Langmuir</i> , 2013, 29, 10705-10712.	3.5	25
49	Microstructures of the Porphyrin/Viologen Monolayer on the Clay Surface: Segregation or Integration?. <i>Journal of Physical Chemistry C</i> , 2014, 118, 20504-20510.	3.1	25
50	Synthesis of water-soluble silicon-porphyrin: protolytic behaviour of axially coordinated hydroxy groups. <i>Dalton Transactions</i> , 2015, 44, 20011-20020.	3.3	24
51	Two-electron oxidation of water to form hydrogen peroxide catalysed by silicon-porphyrins. <i>Sustainable Energy and Fuels</i> , 2018, 2, 1966-1973.	4.9	24
52	Energy transfer reaction of cationic porphyrin complexes on the clay surface: effect of sample preparation method. <i>Research on Chemical Intermediates</i> , 2007, 33, 177-189.	2.7	22
53	Preparation and photochemical behavior of polyfluorinated cationic azobenzene-titanoniobate intercalation compounds. <i>Journal of Materials Chemistry</i> , 2008, 18, 4641.	6.7	22
54	Two-Electron Oxidation of Water Through One-Photon Excitation of Aluminium Porphyrins: Molecular Mechanism and Detection of Key Intermediates. <i>ChemPhotoChem</i> , 2018, 2, 240-248.	3.0	21

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55	Surface Polyfluorinated Micelles. <i>Journal of Physical Chemistry B</i> , 1999, 103, 9562-9568.	2.6	20
56	Synthesis of Highly Monodispersed Mesoporous Tin Oxide Spheres. <i>Chemistry of Materials</i> , 2009, 21, 5252-5257.	6.7	20
57	Kinetic Analysis by Laser Flash Photolysis of Porphyrin Molecules's™ Orientation Change at the Surface of Silicate Nanosheet. <i>Journal of Physical Chemistry C</i> , 2016, 120, 7428-7434.	3.1	20
58	Protolytic behavior of axially coordinated hydroxy groups of Tin(IV) porphyrins as promising molecular catalysts for water oxidation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 358, 402-410.	3.9	20
59	Preparation and Characterization of a Transparent Thin Film of the Layered Perovskite, K ₂ La ₂ Ti ₃ O ₁₀ , Intercalated with an Ionic Porphyrin. <i>Chemistry Letters</i> , 2005, 34, 632-633.	1.3	19
60	Visible light induced oxygenation of alkenes with water sensitized by silicon-porphyrins with the second most earth-abundant element. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2015, 313, 176-183.	3.9	19
61	Protolytic behavior of water-soluble zinc(II) porphyrin and the electrocatalytic two-electron water oxidation to form hydrogen peroxide. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 400, 112619.	3.9	19
62	Photochemical epoxidation of alkene by visible light in a redox system involving metalloporphyrins and water. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 1992, 65, 221-227.	3.9	18
63	Effects of porphyrin structure on the complex formation behavior with clay. <i>Microporous and Mesoporous Materials</i> , 2011, 141, 38-42.	4.4	18
64	Photo-induced morphological winding and unwinding motion of nanoscrolls composed of niobate nanosheets with a polyfluoroalkyl azobenzene derivative. <i>Nanoscale</i> , 2016, 8, 12289-12293.	5.6	17
65	Photochemical oxygenation of cyclohexene with water sensitized by aluminium(III) porphyrins with visible light. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2015, 313, 137-142.	3.9	16
66	Two-electron oxidation of water to form hydrogen peroxide initiated by one-electron oxidation of Tin (IV)-porphyrins. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 401, 112732.	3.9	16
67	Surface polyfluorinated cationic vesicles. <i>Physical Chemistry Chemical Physics</i> , 1999, 1, 3135-3140.	2.8	15
68	Decomposition of poly(4-hydroxystyrene sulfone) in alkaline aqueous solutions. <i>Journal of Polymer Science Part A</i> , 2000, 38, 2760-2766.	2.3	15
69	Enhanced Aggregation of Tin(IV)Porphyrins in a Polyfluorinated Surfactant-Clay Hybrid Environment. <i>Molecular Crystals and Liquid Crystals</i> , 2000, 341, 333-338.	0.3	15
70	Photochemical hydrogen evolution on metal ion surface-grafted TiO ₂ -particles prepared by sol/gel method without calcination. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 358, 386-394.	3.9	15
71	How one-photon can induce water splitting into hydrogen peroxide and hydrogen by aluminum porphyrins. Rationale of the thermodynamics. <i>Sustainable Energy and Fuels</i> , 2020, 4, 1945-1953.	4.9	15
72	Efficient Oxygenation of Alkene through Reductive Quenching of Excited Sb(V)tetraphenylporphyrin by Triphenylphosphine. <i>Chemistry Letters</i> , 1993, 22, 687-690.	1.3	14

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73	Visible light induced oxygenation of cyclohexene with activation of water sensitized by dihydroxy coordinated tetraphenylporphyrinatotin(IV). <i>Research on Chemical Intermediates</i> , 2000, 26, 171-183.	2.7	14
74	Non-aggregated adsorption of cationic metalloporphyrin dyes onto nano-clay sheets films. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2006, 284-285, 284-289.	4.7	13
75	Microscopic structures of adsorbed cationic porphyrins on clay surfaces: molecular alignment in artificial light-harvesting systems. <i>Research on Chemical Intermediates</i> , 2007, 33, 191-200.	2.7	13
76	Remarkable enhancement of the photoreactivity of a polyfluoroalkyl azobenzene derivative in an organic-inorganic nano-layered microenvironment. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 23663-23670.	2.8	13
77	Photochemical Electron Transfer from Hydroxide Ion to the Excited Triplet State of Tetraphenylporphyrinatoantimony(V) upon Visible Light Irradiation in Aqueous Acetonitrile. <i>Chemistry Letters</i> , 1993, 22, 793-796.	1.3	11
78	Effects of Axial Ligands on the Formation of a Layered Structure in Mono- and Di-Cationic Charged Tetraphenylporphyrinatoantimony(V)/Synthetic Clay Composites. <i>Bulletin of the Chemical Society of Japan</i> , 2005, 78, 2251-2258.	3.2	11
79	One-Pot Facile Synthesis of Water-Soluble Cationic Aluminum(III) Porphyrins in a Unique Heterogeneous System at Ambient Temperature. <i>Bulletin of the Chemical Society of Japan</i> , 2016, 89, 334-336.	3.2	11
80	Mechanism of the photoreduction of carbon dioxide catalyzed by the benchmarking rhenium dimethylbipyridine complexes; operando measurements by XAFS and FT-IR. <i>Journal of Catalysis</i> , 2022, 405, 508-519.	6.2	11
81	Adsorption of gaseous molecule within polyfluorinated surfactant/saponite hybrid compound. <i>Journal of Physics and Chemistry of Solids</i> , 2005, 66, 1228-1233.	4.0	9
82	Dense Deposition of Gold Nanoclusters Utilizing a Porphyrin/Inorganic Layered Material Complex as the Template. <i>Langmuir</i> , 2015, 31, 9142-9147.	3.5	9
83	How does the tin(IV)-insertion to porphyrins proceed in water at ambient temperature?: Re-investigation by time dependent ¹ H NMR and detection of intermediates. <i>Inorganica Chimica Acta</i> , 2018, 482, 914-924.	2.4	9
84	Optically Transparent Colloidal Dispersion of Titania Nanoparticles Storable for Longer than One Year Prepared by Sol/Gel Progressive Hydrolysis/Condensation. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 44743-44753.	8.0	9
85	Magnetic Alignment of Rhodamine B Intercalated in Synthetic Mica. <i>Macromolecular Symposia</i> , 2006, 242, 120-125.	0.7	8
86	Effect of Li ions doping into p-type semiconductor NiO as a hole injection/transfer medium in the CO ₂ reduction sensitized/catalyzed by Zn-porphyrin/Re-complex upon visible light irradiation. <i>Research on Chemical Intermediates</i> , 2021, 47, 269-285.	2.7	8
87	Synthesis of double-wall nanoscrolls intercalated with polyfluorinated cationic surfactant into layered niobate and their magnetic alignment. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 12108-12114.	2.8	7
88	Microscopic environment and molecular orientation of guest molecules within polyfluorinated surfactant and clay hybrids: Photochemical studies of stilbazolium derivatives. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 363, 61-67.	3.9	7
89	Facile Synthesis of Water-Soluble Cationic Tin(IV) Porphyrins and Water-Insoluble Tin(IV) Porphyrins in Water at Ambient Temperature. <i>Bulletin of the Chemical Society of Japan</i> , 2016, 89, 902-904.	3.2	6
90	Which types of clay minerals fix cesium ions effectively? the cavity-charge matching effect. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 9352-9356.	2.8	6

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91	Fabrication of dialkyldimethylammonium/vanadium oxide gel hybrid Langmuir-Blodgett membranes. <i>Research on Chemical Intermediates</i> , 2007, 33, 101-110.	2.7	5
92	Investigation of adsorption behavior and energy transfer of cationic porphyrins on clay surface at low loading levels by picosecond time-resolved fluorescence measurement. <i>Research on Chemical Intermediates</i> , 2013, 39, 269-278.	2.7	5
93	Active species transfer-type artificial light harvesting system in the nanosheet "Dye complexes: Utilization of longer wavelength region of sunlight. <i>Tetrahedron Letters</i> , 2018, 59, 528-531.	1.4	5
94	Acid-base equilibria of axial ligand and peripheral pyridyl group with stepwise formation of nine species of aluminum (III) tetra(4-pyridyl) porphyrin. <i>Inorganica Chimica Acta</i> , 2021, 526, 120529.	2.4	5
95	Adsorption and stacking behaviour of zwitterionic porphyrin on the clay surface. <i>Clay Minerals</i> , 2012, 47, 243-250.	0.6	4
96	Trapping of excess energy in a nano-layered microenvironment to promote chemical reactions. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 4734-4740.	2.8	4
97	Synthesis of a photo-responsive single-walled nanoscroll and its photo-reactivity in a nano-layered microenvironment. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 21738-21745.	2.8	4
98	Reversed Micelles Formed by Polyfluorinated Surfactant II; the Properties of Core Water Phase in Reversed Micelle. <i>Bulletin of the Chemical Society of Japan</i> , 2019, 92, 1200-1204.	3.2	4
99	Microstructure and the Mobility of Fluorinated Carbon Chain of Reversed Micelles Formed by Cationic Polyfluorinated Surfactant. <i>Bulletin of the Chemical Society of Japan</i> , 2014, 87, 1273-1277.	3.2	3
100	Silylated poly(4-hydroxystyrene)s as negative electron beam resists. <i>Journal of Applied Polymer Science</i> , 1998, 70, 1151-1157.	2.6	2
101	Effects of axial ligands on the intercalation of tetraphenylporphyrinatoantimony(V) into smectite clay layers. <i>Research on Chemical Intermediates</i> , 2007, 33, 169-175.	2.7	1
102	Photoamination of 1-hydroxyanthraquinone in a water-acetonitrile mixed solvent. <i>Journal of Physical Organic Chemistry</i> , 2009, 22, 313-320.	1.9	1
103	Heat trapping in a nano-layered microenvironment: estimation of temperature by thermal sensing molecules. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 7201-7209.	2.8	1
104	Desulfonation of poly(4-hydroxystyrene sulfone) by vapor phase silylation. <i>Journal of Polymer Science Part A</i> , 1999, 37, 1549-1554.	2.3	0
105	Energy Dissipation Processes of singlet-excited 1-hydroxyfluorenone and its Hydrogen-bonded Complex with N-methylimidazole. <i>Photochemistry and Photobiology</i> , 2004, 80, 119-126.	2.5	0
106	One Electron-Initiated Two-Electron Oxidation of Water by Aluminum Porphyrins with Earth's Most Abundant Metal. <i>ChemSusChem</i> , 2017, 10, 1860-1860.	6.8	0
107	Capturing the Light Fantastic. <i>ChemPhotoChem</i> , 2018, 2, 110-111.	3.0	0
108	(Keynote) One-Electron Initiated Two-Electron Oxidation of Water Catalyzed By Aluminum Porphyrins, Incorporating Earth. <i>ECS Meeting Abstracts</i> , 2016, , .	0.0	0

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109	Future Prospect of Artificial Photosynthesis. Hyomen Kagaku, 2017, 38, 260-267.	0.0	0