

# Yoshinobu Nishimura

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/7172546/yoshinobu-nishimura-publications-by-citations.pdf>

**Version:** 2024-04-18

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

337  
papers

7,434  
citations

43  
h-index

71  
g-index

372  
ext. papers

7,873  
ext. citations

4  
avg, IF

5.46  
L-index

#	Paper	IF	Citations
337	Light-harvesting and photocurrent generation by gold electrodes modified with mixed self-assembled monolayers of boron-dipyrrin and ferrocene-porphyrin-fullerene triad. <i>Journal of the American Chemical Society</i> , <b>2001</b> , 123, 100-10	16.4	385
336	Photovoltaic properties of self-assembled monolayers of porphyrins and porphyrin-fullerene dyads on ITO and gold surfaces. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 9129-39	16.4	234
335	Photochemical one-way adiabatic isomerization of aromatic olefins. <i>Chemical Reviews</i> , <b>1993</b> , 93, 23-39	68.1	233
334	Vectorial Multistep Electron Transfer at the Gold Electrodes Modified with Self-Assembled Monolayers of Ferrocene-Porphyrin-Fullerene Triads. <i>Journal of Physical Chemistry B</i> , <b>2000</b> , 104, 2099-2108	3.4	184
333	Chain Length Effect on the Structure and Photoelectrochemical Properties of Self-Assembled Monolayers of Porphyrins on Gold Electrodes. <i>Journal of Physical Chemistry B</i> , <b>2000</b> , 104, 1253-1260	3.4	172
332	Windmill-Like Porphyrin Arrays as Potent Light-Harvesting Antenna Complexes. <i>Angewandte Chemie - International Edition</i> , <b>1998</b> , 37, 3023-3027	16.4	162
331	Photoactive three-dimensional monolayers: porphyrin-alkanethiolate-stabilized gold clusters. <i>Journal of the American Chemical Society</i> , <b>2001</b> , 123, 335-6	16.4	142
330	Excited-state intramolecular proton transfer of naphthalene-fused 2-(2'-hydroxyaryl)benzazole family. <i>Journal of Physical Chemistry A</i> , <b>2010</b> , 114, 1603-9	2.8	137
329	Photochromism, thermochromism, and solvatochromism of naphthalene-based analogues of salicylideneaniline in solution. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2004</b> , 162, 473-479	4.7	135
328	1,2-Phenylene-bridged diporphyrin linked with porphyrin monomer and pyromellitimide as a model for a photosynthetic reaction center: synthesis and photoinduced charge separation. <i>Journal of the American Chemical Society</i> , <b>1993</b> , 115, 4577-4589	16.4	123
327	Synthesis and Intramolecular Electron- and Energy-Transfer Reactions of Polyene- or Polyene-Bridged Diporphyrins. <i>Journal of Organic Chemistry</i> , <b>1995</b> , 60, 7177-7185	4.2	116
326	A Stepwise Electron-Transfer Relay Mimicking the Primary Charge Separation in Bacterial Photosynthetic Reaction Center. <i>Journal of the American Chemical Society</i> , <b>1996</b> , 118, 155-168	16.4	110
325	Electron transfer quenching of S <sub>2</sub> state fluorescence of Zn-tetraphenylporphyrin. <i>Chemical Physics Letters</i> , <b>1995</b> , 242, 644-649	2.5	97
324	Photochemistry and photophysics of stilbene dendrimers and related compounds. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , <b>2004</b> , 5, 1-25	16.4	95
323	Structure and photophysical properties of porphyrin-modified metal nanoclusters with different chain lengths. <i>Langmuir</i> , <b>2004</b> , 20, 73-81	4	90
322	Excitation energy transfer in carotenoid-chlorophyll protein complexes probed by femtosecond fluorescence decays. <i>Chemical Physics Letters</i> , <b>1996</b> , 260, 147-152	2.5	89
321	Modified windmill porphyrin arrays: coupled light-harvesting and charge separation, conformational relaxation in the S <sub>1</sub> state, and S <sub>2</sub> -S <sub>2</sub> energy transfer. <i>Chemistry - A European Journal</i> , <b>2001</b> , 7, 3134-51	4.8	81

320	One-way photoisomerization between cis- and trans-olefin. A novel adiabatic process in the excited state. <i>Tetrahedron Letters</i> , <b>1983</b> , 24, 2873-2876	2	77
319	Vectorial electron relay at ITO electrodes modified with self-assembled monolayers of ferrocene-porphyrin-fullerene triads and porphyrin-fullerene Dyads for molecular photovoltaic devices. <i>Chemistry - A European Journal</i> , <b>2004</b> , 10, 5111-22	4.8	76
318	Energy-gap dependence of photoinduced charge separation and subsequent charge recombination in 1,4-phenylene-bridged zinc-free-base hybrid porphyrins. <i>Chemistry - A European Journal</i> , <b>2000</b> , 6, 33-46	4.8	72
317	Enhancement of Photocurrent Generation by ITO Electrodes Modified Chemically with Self-Assembled Monolayers of Porphyrin Fullerene Dyads. <i>Advanced Materials</i> , <b>2002</b> , 14, 892	24	70
316	Three-dimensionally arranged windmill and grid porphyrin arrays by AgI-promoted meso-meso block oligomerization. <i>Chemistry - A European Journal</i> , <b>2000</b> , 6, 3254-71	4.8	69
315	Molecular structure and optical properties of carotenoids for the in vivo energy transfer function in the algal photosynthetic pigment system. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>1992</b> , 1098, 271-274	4.6	69
314	Two-step Changes in Luminescence Color of Pt(II) Complex Bearing an Amide Moiety by Mechano- and Vapochromism. <i>Chemistry Letters</i> , <b>2012</b> , 41, 65-67	1.7	66
313	Photosynthetic electron transfer using fullerenes as novel acceptors. <i>Carbon</i> , <b>2000</b> , 38, 1599-1605	10.4	66
312	External Electric Field Effects on Fluorescence in an Electron Donor and Acceptor System: Ethylcarbazole and Dimethyl Terephthalate in PMMA Polymer Films. <i>The Journal of Physical Chemistry</i> , <b>1996</b> , 100, 16466-16471		65
311	Temperature-induced phase transition of pyrene-labeled (hydroxypropyl) cellulose in water: picosecond fluorescence studies. <i>The Journal of Physical Chemistry</i> , <b>1992</b> , 96, 1967-1972		64
310	Synthesis and photoexcited-state dynamics of aromatic group-bridged carotenoid-porphyrin dyads and carotenoid-porphyrin-pyromellitimide triads. <i>Journal of the American Chemical Society</i> , <b>1993</b> , 115, 9439-9452	16.4	61
309	Electric field effects on absorption and fluorescence spectra of pyrene doped in a PMMA polymer film. <i>Thin Solid Films</i> , <b>1997</b> , 311, 239-245	2.2	60
308	A Sequential Electron-Transfer Relay in Diporphyrin Porphyrin Pyromellitimide Triads Analogous to That in the Photosynthetic Reaction Center. <i>Angewandte Chemie International Edition in English</i> , <b>1996</b> , 35, 92-95		59
307	New insight into one-way photoisomerization of anthrylethylenes: absorption spectra of the trans triplets as intermediates of the isomerization. <i>Chemical Physics Letters</i> , <b>1985</b> , 115, 9-15	2.5	59
306	Enhancement of the large stokes-shifted fluorescence emission from the 2-(2'-hydroxyphenyl)benzoxazole core in a dendrimer. <i>Journal of Physical Chemistry A</i> , <b>2005</b> , 109, 9731-6	2.8	56
305	Novel Photoinduced Hydrogen Atom Transfer through Intramolecular Hydrogen Bonding Coupled with Cis-Trans Isomerization in cis-1-(2-Pyrrolyl)-2-(2-quinolyl)ethene. <i>Journal of the American Chemical Society</i> , <b>1994</b> , 116, 3171-3172	16.4	54
304	Synthesis, excited state properties, and dynamic structural change of photoresponsive dendrimers. <i>Polymer</i> , <b>2004</b> , 45, 5369-5390	3.9	53
303	Molecular Structure and Photochemistry of (E)- and (Z)-2-(2-(2-Pyridyl)ethenyl)indole. A Case of Hydrogen Bond Dependent One-Way Photoisomerization. <i>Journal of the American Chemical Society</i> , <b>1995</b> , 117, 3029-3036	16.4	53

302	Concentration Effects of Porphyrin Monolayers on the Structure and Photoelectrochemical Properties of Mixed Self-Assembled Monolayers of Porphyrin and Alkanethiol on Gold Electrodes. <i>Langmuir</i> , <b>2001</b> , 17, 4925-4931	4	52
301	Developmental Process of a Chopstick-Like Hybrid-Structure Two-Fingered Micromanipulator Hand for 3-D Manipulation of Microscopic Objects. <i>IEEE Transactions on Industrial Electronics</i> , <b>2009</b> , 56, 1121-1135	8.9	51
300	A new fluorescent metal sensor with two binding moieties. <i>Tetrahedron Letters</i> , <b>2004</b> , 45, 9377-9381	2	51
299	Development of a quinoxaline-based fluorescent probe for quantitative estimation of protein binding site polarity. <i>Chemical Communications</i> , <b>2011</b> , 47, 3867-9	5.8	50
298	Photoisomerization of stilbene dendrimers: the need for a volume-conserving isomerization mechanisms. <i>Photochemistry and Photobiology</i> , <b>2002</b> , 76, 596-605	3.6	49
297	Substituent Effects of Porphyrin Monolayers on the Structure and Photoelectrochemical Properties of Self-Assembled Monolayers of Porphyrin on Indium Oxide Electrode. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 5018-5025	3.4	45
296	Dynamics of singlet oxygen generation by DNA-binding photosensitizers. <i>Journal of Physical Chemistry B</i> , <b>2012</b> , 116, 3037-44	3.4	44
295	Violet emission observed from phthalocyanines. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>1997</b> , 106, 177-183	4.7	43
294	Remarkable enhancement of photocurrent generation by ITO electrodes modified with a self-assembled monolayer of porphyrin. <i>Chemical Communications</i> , <b>2000</b> , 1921-1922	5.8	42
293	Synthesis and photophysical properties of a diporphyrin fullerene triad. <i>Chemical Communications</i> , <b>1999</b> , 625-626	5.8	42
292	Photochemistry of 2-Hydroxychalcone. One-Way Cis-Trans Photoisomerization Induced by Adiabatic Intramolecular Hydrogen Atom Transfer. <i>Journal of Physical Chemistry A</i> , <b>2002</b> , 106, 2766-2776	2.8	41
291	Metal and size effects on structures and photophysical properties of porphyrin-modified metal nanoclusters. <i>Journal of Materials Chemistry</i> , <b>2003</b> , 13, 2890		39
290	Water-soluble stilbene dendrimers. <i>Chemical Communications</i> , <b>2003</b> , 94-5	5.8	39
289	Electric-Field-Induced Quenching of Exciplex Fluorescence and Photocurrent Generation in a Mixture of Ethylcarbazole and Dimethyl Terephthalate Doped in a PMMA Polymer Film. <i>Journal of Physical Chemistry B</i> , <b>1998</b> , 102, 3784-3790	3.4	38
288	Intramolecular photoinduced electron transfer in fixed distance triads consisting of free-base porphyrin, zinc porphyrin, and electron acceptor. <i>Chemical Physics Letters</i> , <b>1991</b> , 185, 88-94	2.5	38
287	Windmühlenartige Porphyrinaggregate als lichtsammelnde Antennenkomplexe. <i>Angewandte Chemie</i> , <b>1998</b> , 110, 3172-3176	3.6	37
286	Water-soluble azobenzene dendrimers. <i>Tetrahedron Letters</i> , <b>2004</b> , 45, 4131-4134	2	37
285	π-π Interactions in π-Di-(9-anthryl) and Di-(1-naphthyl) Oligosilanes Studied by Time-Resolved Fluorescence in Solution. <i>Journal of Physical Chemistry B</i> , <b>2003</b> , 107, 12184-12191	3.4	37

- 284 Acceleration of Photoinduced Charge Separation in Porphyrin-C60Dyad with an Acetylene Spacer. *Chemistry Letters*, **1999**, 28, 895-896 1.7 36
- 283 Exciplex formation between pyrene and guanine in highly polar solvents. *Chemical Communications*, **2004**, 824-5 5.8 35
- 282 Highly Selective Cis-Trans Photoisomerization of 1-Pyrenylethylenes: Relations between the Modes of Isomerization and Potential Energy Surfaces. *Bulletin of the Chemical Society of Japan*, **1990**, 63, 2881-2890 5.1 35
- 281 Direct observation of cis-to-trans conversion of olefin radical cations. Electron transfer-induced isomerization of stilbene derivatives. *Chemical Physics Letters*, **1990**, 173, 253-256 2.5 35
- 280 Direct trapping excitation energy transfer from rhodamine B to crystal violet in Langmuir-Blodgett monolayer and stacked multilayer films. *Chemical Physics*, **1993**, 177, 591-600 2.3 34
- 279 Singlet oxygen generating activity of an electron donor connecting porphyrin photosensitizer can be controlled by DNA. *Journal of Physical Chemistry B*, **2013**, 117, 13490-6 3.4 33
- 278 Synthesis and photochemical properties of polyphenylene dendrimers with photoreactive stilbene core. *Tetrahedron Letters*, **2002**, 43, 5265-5268 2 33
- 277 Molecular organization of bacteriochlorophyll in chlorosomes of the green photosynthetic bacterium *Chloroflexus aurantiacus*: Studies of fluorescence depolarization accompanied by energy transfer processes. *Photosynthesis Research*, **1994**, 41, 181-91 3.7 33
- 276 Red/near-infrared luminescence tuning of group-14 element complexes of dipyrins based on a central atom. *Inorganic Chemistry*, **2014**, 53, 1355-60 5.1 32
- 275 Porphyrin and fullerene-based artificial photosynthetic materials for photovoltaics. *Thin Solid Films*, **2004**, 451-452, 580-588 2.2 32
- 274 Intramolecular Excitation Energy Transfer in Bichromophoric Compounds in Stretched Polymer Films. *Journal of Physical Chemistry B*, **2002**, 106, 4925-4932 3.4 31
- 273 UV light and red light chemistry of metallophthalocyanine: wavelength-dependent photochemical reduction of tetrasodium salts of Zn(II) and Cu(II) tetrasulphonatophthalocyanines with amines. *Journal of Photochemistry and Photobiology A: Chemistry*, **1995**, 89, 37-44 4.7 31
- 272 External Electric Field Effects on Fluorescence of Methylene-Linked D $\pi$ A Systems in Polymer Films: (Carbazole)(CH<sub>2</sub>)<sub>n</sub>(Terephthalic Acid Methyl Ester). *The Journal of Physical Chemistry*, **1996**, 100, 19295-19302 3.1
- 271 Photoinduced electron transfer reactions in quinone-linked zinc porphyrin arrays. *Chemical Physics Letters*, **1991**, 181, 413-418 2.5 31
- 270 The effect of molecular structure on the relaxation processes of carotenoids containing a carbonyl group. *Chemical Physics Letters*, **1993**, 213, 576-580 2.5 31
- 269 Determination of Singlet Oxygen and Electron Transfer Mediated Mechanisms of Photosensitized Protein Damage by Phosphorus(V)porphyrins. *Chemical Research in Toxicology*, **2015**, 28, 262-7 4 30
- 268 HUMANROBOT COLLISION AVOIDANCE USING A MODIFIED SOCIAL FORCE MODEL WITH BODY POSE AND FACE ORIENTATION. *International Journal of Humanoid Robotics*, **2013**, 10, 1350008 1.2 30
- 267 Acceleration of Photoinduced Electron Transfer in Porphyrin-Linked C70. *Chemistry Letters*, **1999**, 28, 227-228 1.7 30

- 266 Identification of a photochemically inactive pheophytin molecule in the spinach D1-D2-cyt b559 complex. *Biochimica Et Biophysica Acta - Bioenergetics*, **1995**, 1232, 81-88 4.6 30
- 265 Sequential Electron Transfer Leading to Long-Lived Charge Separated State in a PorphyrinOxochlorinPyromellitimide Triad. *Bulletin of the Chemical Society of Japan*, **1995**, 68, 262-276 5.1 30
- 264 Fluorescence Turn-On Sensing of Anions Based on Disassembly Process of Urea-Functionalized Poly(phenylenebutadiynylene) Aggregates. *Macromolecules*, **2012**, 45, 4122-4127 5.5 29
- 263 Direct measurement of the low-lying singlet excited ( $2^1A_g$ ) state of a linear carotenoid, neurosporene, in solution. *Chemical Physics Letters*, **1993**, 204, 101-105 2.5 29
- 262 Photosensitized protein damage by dimethoxyphosphorus(V) tetraphenylporphyrin. *Bioorganic and Medicinal Chemistry Letters*, **2013**, 23, 2704-7 2.9 27
- 261 Development of a psychological scale for general impressions of humanoid. *Advanced Robotics*, **2013**, 27, 3-17 1.7 27
- 260 The photochemical characteristics of aromatic enediyne compounds substituted with electron donating and electron withdrawing groups. *Organic and Biomolecular Chemistry*, **2003**, 1, 2655-60 3.9 26
- 259 The Photochemical Specific Isomerization of Dendritic Stilbenes. *Bulletin of the Chemical Society of Japan*, **2004**, 77, 1195-1200 5.1 26
- 258 The First Synthesis of Stilbene Dendrimers and their PhotochemicaltransEisomerization. *Chemistry Letters*, **2001**, 30, 1014-1015 1.7 26
- 257 Time-resolved analysis of intramolecular electronic energy transfer in methylenes-linked naphthaleneEanthracene compounds. *Chemical Physics Letters*, **2000**, 323, 117-124 2.5 26
- 256 Synthesis of 1,3-Dioxane-Bridged Pyropheophorbide-Diimide and Pyropheophorbide Dimer and Their Intramolecular Electron and Energy Transfer. *Bulletin of the Chemical Society of Japan*, **1995**, 68, 2909-2915 5.1 26
- 255 Quantitative analysis of the solvent effect on the relaxation processes of carotenoids showing dual emissive characteristics. *Chemical Physics Letters*, **1992**, 191, 219-224 2.5 26
- 254 Conformations of the triplet state of aromatic olefins. Observation of the transoid triplet states of 3,3-dimethyl-1-(2-naphthyl)-1-butene and 3,4-dihydrophenanthrene as a rigid planar triplet model. *Chemical Physics Letters*, **1983**, 98, 40-44 2.5 26
- 253 Factors Determining the Adiabatic or the Diabatic Pathway of the Photoisomerization of Unsaturated Bonds. *Bulletin of the Chemical Society of Japan*, **1995**, 68, 1065-1087 5.1 25
- 252 Triplet energy surfaces of one-way isomerizing olefins as studied by singlet oxygen luminescence technique. *Chemical Physics Letters*, **1988**, 149, 161-166 2.5 25
- 251 New Architecture of a Hybrid Two-Fingered MicroNano Manipulator Hand: Optimization and Design. *Advanced Robotics*, **2008**, 22, 235-260 1.7 24
- 250 Potential energy surfaces of one-way and two-way photoisomerization of olefins. *Journal of Photochemistry and Photobiology A: Chemistry*, **1992**, 65, 1-13 4.7 24
- 249 The relaxation dynamics of the excited state of stilbene dendrimers substituted with phenylacetylene groups. *Journal of Photochemistry and Photobiology A: Chemistry*, **2006**, 178, 150-155 4.7 23

- 248 Mechanistic Approach to the Sensitization Process of Aromatic Ketones in the Isomerization between Norbornadiene and Quadricyclane. *Bulletin of the Chemical Society of Japan*, **1987**, 60, 2937-2943<sup>5.1</sup> 23
- 247 A novel "cross-a-ridge" isomerization of olefins. The energy surface of 2-ethenylantracene in the excited triplet state. *Chemical Physics Letters*, **1988**, 146, 405-409 2.5 23
- 246 Environmental polarity estimation in living cells by use of quinoxaline-based full-colored solvatochromic fluorophore PQX and its derivatives. *Photochemical and Photobiological Sciences*, **2012**, 11, 674-8 4.2 22
- 245 Present Status of the Photoisomerization About Ethylenic Bonds. *Advances in Photochemistry*, **2007**, 1-57 22
- 244 Photoisomerization and Fluorescence Properties of Hemiindigo Compounds Having Intramolecular Hydrogen Bonding. *Bulletin of the Chemical Society of Japan*, **2003**, 76, 1783-1792 5.1 22
- 243 Synthesis and isomerization of azobenzene dendrimers. *Photochemical and Photobiological Sciences*, **2003**, 2, 845-7 4.2 22
- 242 Coordination control of intramolecular electron transfer in boronate-bridged zinc porphyrin-diimide molecules. *Journal of Organic Chemistry*, **2000**, 65, 8747-57 4.2 22
- 241 Novel Photochromic Dye Based on Hydrogen Bonding. *Chemistry Letters*, **1999**, 28, 965-966 1.7 22
- 240 Observation of a Novel Fluorescent Dimer of Zinc Tetrasulphonatophthalocyanine. *Chemistry Letters*, **1996**, 25, 345-346 1.7 22
- 239 An enhancement of excimer formation rate of pyrene by an external electric field in a PMMA polymer film. *Chemical Physics Letters*, **1997**, 279, 215-222 2.5 21
- 238 Photochemical Behavior of an Anthracene-Urea Derivative Interacting with Anions. *Bulletin of the Chemical Society of Japan*, **2007**, 80, 747-751 5.1 21
- 237 Solvent effect on the photochemical properties of symmetrically substituted trans-3,3',5,5'-tetramethoxystilbene. *Journal of Physical Chemistry A*, **2006**, 110, 12566-71 2.8 21
- 236 Controlling the Hydrophobic Properties of Water-soluble Stilbene Dendrimers. *Chemistry Letters*, **2003**, 32, 1008-1009 1.7 21
- 235 Modulation of the Emission Mode of a Pt(II) Complex via Intermolecular Interactions. *Inorganic Chemistry*, **2017**, 56, 8726-8729 5.1 20
- 234 Kinetics of hydrogen bonding between anthracene urea derivatives and anions in the excited state. *Journal of Physical Chemistry A*, **2011**, 115, 8227-33 2.8 20
- 233 Effect of excitation wavelength on photoreduction of metal-free and copper(II) 1,4,8,11,15,18,22,25-octabutoxyphthalocyanines with triethanolamine. *Journal of Photochemistry and Photobiology A: Chemistry*, **1996**, 97, 155-162 4.7 20
- 232 Excitation energy transfer in the green photosynthetic bacterium *Chloroflexus aurantiacus*: A specific effect of 1-hexanol on the optical properties of baseplate and energy transfer processes. *Photosynthesis Research*, **1996**, 48, 263-70 3.7 20
- 231 Synthesis and Photochemical Properties of Anthracene-Polyyne-Porphyrin Assemblies. *Bulletin of the Chemical Society of Japan*, **1997**, 70, 1125-1133 5.1 19

- 230 Singlet energy transfer in bis(phenylethynyl)phenylene-bridged zinc free base hybrid diporphyrins. *Journal of the Chemical Society Perkin Transactions II*, **1997**, 479-484 19
- 229 Water-soluble poly(aryl ether) dendrimers as a potential fluorescent detergent to form micelles at very low CMC. *Tetrahedron Letters*, **2004**, 45, 8515-8518 2 19
- 228 Photochemical cyclization reaction in cis-tetramethoxystilbene. *Journal of Photochemistry and Photobiology A: Chemistry*, **2003**, 158, 7-12 4.7 19
- 227 Photoisomerization and isomer-specific addition of water in hydroxystilbenes. *Photochemical and Photobiological Sciences*, **2003**, 2, 1247-9 4.2 19
- 226 Photoisomerisation and fluorescence behaviour of polyphenylene-based stilbene dendrimers. *Photochemical and Photobiological Sciences*, **2003**, 2, 1181-6 4.2 19
- 225 Adiabatic Intramolecular Hydrogen Atom Transfer in 2-[2-(2-Pyrrolyl)ethenyl]pyridine. *Chemistry Letters*, **1998**, 27, 169-170 1.7 19
- 224 Singlet molecular oxygen generation by water-soluble phthalocyanine dendrimers with different aggregation behavior. *Journal of Porphyrins and Phthalocyanines*, **2011**, 15, 47-53 1.8 18
- 223 Energy and electron transfer properties of methyl pheophorbide-a in zinc porphyrin-pheophorbide dyads. *Tetrahedron*, **1997**, 53, 13657-13666 2.4 18
- 222 Novel photochemical behavior of olefin with a pyrrole ring and a phenanthroline ring controlled by hydrogen bonding. *Tetrahedron Letters*, **1998**, 39, 2617-2620 2 18
- 221 Photoinduced energy transfer in mixed self-assembled monolayers of pyrene and porphyrin. *Chemical Communications*, **2000**, 661-662 5.8 18
- 220 The Effect of meta-Substitution on the Photochemical Properties of Benzoxazole Derivatives. *Bulletin of the Chemical Society of Japan*, **2007**, 80, 561-566 5.1 17
- 219 Structure and photoelectrochemical properties of ITO electrodes modified with self-assembled monolayers of meso, meso-linked porphyrin oligomers. *Journal of Porphyrins and Phthalocyanines*, **2003**, 07, 296-312 1.8 17
- 218 Hydrogen bonded molecular assembly by reversible cyclization reaction of anthracene. *Chemical Communications*, **2003**, 1566 5.8 17
- 217 Electric Field Effects on Fluorescence of Methylene-Linked Compounds of Phenanthrene and N,N-Dimethylaniline in a Poly(methyl methacrylate) Polymer Film. *Journal of Physical Chemistry A*, **2001**, 105, 10261-10270 2.8 17
- 216 Accelerated singlet energy transfer in bis(phenylethynyl)phenylene-bridged 5,10,15,20-tetraaryl zinc free base hybrid diporphyrins. *Journal of the Chemical Society Perkin Transactions II*, **1999**, 1019 17
- 215 Fluorescence properties of the allenic carotenoid fucoxanthin. *Journal of Luminescence*, **1992**, 51, 1-10 3.8 17
- 214 Anshin as a concept of subjective well-being between humans and robots in Japan. *Advanced Robotics*, **2015**, 29, 1624-1636 1.7 16
- 213 Synthesis and Photocleavage of 7-[[Bis(carboxymethyl)amino]coumarin-4-yl]methyl-Caged Neurotransmitters. *Bulletin of the Chemical Society of Japan*, **2007**, 80, 2384-2388 5.1 16



212	Photoinduced Proton Transfer in 2-(2'-Hydroxynaphthalenyl)benzoxazole: Observation of Fluorescence with a Small Stokes Shift Induced by Excited-State Intramolecular Proton Transfer. <i>Bulletin of the Chemical Society of Japan</i> , <b>2009</b> , 82, 118-120	5.1	15
211	Dynamics of Water-Soluble Stilbene Dendrimers upon Photoisomerization. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 12783-12789	3.4	15
210	Energy Releasing and Conformational Dynamics of Stilbene Dendrimers upon Photoisomerization. <i>Journal of Physical Chemistry A</i> , <b>2003</b> , 107, 6515-6521	2.8	15
209	Xanthene Dye-Sensitized Electron Transfer to Methylviologen in Aqueous Organic Solution. Effects of Organic Solvents and Heavy Atoms in the Dyes. <i>Bulletin of the Chemical Society of Japan</i> , <b>1992</b> , 65, 2887-2893	5.1	15
208	Vision-Based Hierarchical Recognition for Dismantling Robot Applied to Interior Renewal of Buildings. <i>Computer-Aided Civil and Infrastructure Engineering</i> , <b>2011</b> , 26, 336-355	8.4	14
207	The first observation of the effect of dendritic structure to produce the triplet excited state of the core stilbene by dendron excitation. <i>Tetrahedron Letters</i> , <b>2007</b> , 48, 639-641	2	14
206	Coherent Control of Oscillatory Excitation Transfer in Dithia-1,5[3,3]anthracenophane by a Phase-Locked Femtosecond Pulse Pair. <i>Journal of Physical Chemistry A</i> , <b>2003</b> , 107, 10019-10025	2.8	14
205	Electric-field-induced enhancement of LE fluorescence in a linked compound of carbazole and terephthalic acid methyl ester in a PMMA polymer film. <i>Chemical Physics Letters</i> , <b>2000</b> , 332, 442-448	2.5	14
204	Time-resolved fluorescence spectroscopy and photolysis of the photoreceptor blepharismine. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>1993</b> , 1143, 319-26	4.6	14
203	Novel rotational isomerization of the anthracene nucleus around the C-C bond connected to the imine group in the excited singlet state of (E)-N-methoxy-1-(2-anthryl)ethanimine. <i>The Journal of Physical Chemistry</i> , <b>1991</b> , 95, 10322-10325		14
202	Observation of anthracene excimer fluorescence at very low concentrations utilizing dendritic structures. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2011</b> , 223, 1-5	4.7	13
201	Novel Finding of the Effect of Triple Bond on the Photochemical cis-trans Isomerization of C=C Double Bond. <i>Chemistry Letters</i> , <b>2001</b> , 30, 1050-1051	1.7	13
200	Measurements of the electric-field-induced change in fluorescence decay profile of methylene-linked carbazole and terephthalic acid methyl ester in a PMMA polymer film. <i>Chemical Physics Letters</i> , <b>1999</b> , 307, 8-14	2.5	13
199	Highly Efficient Energy Dissipation by a Carotenoid in Face-to-Face Porphyrin-Carotenoid Dyads. <i>Journal of Organic Chemistry</i> , <b>1999</b> , 64, 3757-3762	4.2	13
198	Photochemical behavior of 2-[2-(2-pyridyl) ethenyl] indole on triplet sensitization. Spin multiplicity dependence of the isomerization modes of an intramolecularly hydrogen-bonded compound. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>1996</b> , 96, 65-69	4.7	13
197	Kinetic analysis of energy transfer processes in LHC II isolated from the siphonous green alga, <i>Bryopsis maxima</i> with use of picosecond fluorescence spectroscopy. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>1994</b> , 1188, 117-124	4.6	13
196	Fucoxanthin-Pyropheophorbide and Zeaxanthin-Pyropheophorbide Dyads as New Models for Study on Carotenoid-Chlorophyll Excited State Interactions. <i>Bulletin of the Chemical Society of Japan</i> , <b>1995</b> , 68, 3255-3268	5.1	13
195	Picosecond dynamics of intramolecular singlet excitation energy transfer and photoinduced electron transfer in covalently-linked carotenoid porphyrin and carotenoid porphyrin pyromellitimide molecules. <i>Chemical Physics Letters</i> , <b>1991</b> , 181, 419-426	2.5	13

- 194 Synthesis and Intramolecular Electron-Transfer Reaction of Distance-Fixed Quinone-Linked Porphyrins. *Bulletin of the Chemical Society of Japan*, **1992**, 65, 2807-2813 5.1 13
- 193 Geometry- and solvent-polarity-dependent photoinduced electron transfer in conformationally restricted magnesium-free-base hybrid diporphyrins. *Chemical Physics Letters*, **1993**, 201, 223-228 2.5 13
- 192 Fluorescence Sensor with A New ON -OFF-ON Switching Mechanism Using the Excited State Intermolecular Proton Transfer Reaction of An Anthracene-diurea Compound. *Photochemistry and Photobiology*, **2017**, 93, 1187-1192 3.6 12
- 191 Perceived Comfortableness of Anthropomorphized Robots in U.S. and Japan. *International Journal of Social Robotics*, **2017**, 9, 537-543 4 12
- 190 The use of dendrimers as high-performance shells for round-trip energy transfer: efficient trans-cis photoisomerization from an excited triplet state produced within a dendrimer shell. *Photochemical and Photobiological Sciences*, **2011**, 10, 116-22 4.2 12
- 189 Stair recognition with laser range scanning by limb mechanism robot ~~ASTERISK~~ **2009**, 12
- 188 Synthesis and Photochemical Properties of a New Water-Soluble Coumarin, Designed as a Chromophore for Highly Water-Soluble and Photolabile Protecting Group. *Bulletin of the Chemical Society of Japan*, **2006**, 79, 1753-1757 5.1 12
- 187 Time-resolved fluorescence of  $\pi$ (9-anthryl)- $\pi$ (1-naphthyl)-oligosilanes: intramolecular electronic energy and charge transfer through  $\pi$ - $\pi$  interactions. *Journal of Organometallic Chemistry*, **2004**, 689, 1029-1035 2.3 12
- 186 Photochromic and Fluorescence Properties of a Hemiindigo in the Presence of Bovine Serum Albumin. *Chemistry Letters*, **2005**, 34, 492-493 1.7 12
- 185 Presence and significance of minor antenna components in the energy transfer sequence of the green photosynthetic bacterium *Chloroflexus aurantiacus*. *FEBS Letters*, **1994**, 340, 167-72 3.8 12
- 184 Excited-state intermolecular proton transfer dependent on the substitution pattern of anthracene-diurea compounds involved in fluorescent ON-OFF-ON response by the addition of acetate ions. *Organic and Biomolecular Chemistry*, **2017**, 15, 6575-6583 3.9 11
- 183 Dextrous cell diagnosis using two-fingered microhand with micro force sensor. *Journal of Micro-Nano Mechatronics*, **2012**, 7, 13-20 11
- 182 Drastic solvent effect on thermal back reaction of spiroperimidine photochromic compounds. *Journal of Photochemistry and Photobiology A: Chemistry*, **2009**, 205, 116-121 4.7 11
- 181 Automated micromanipulation for a microhand with All-In-Focus imaging system **2011**, 11
- 180 Micro Hand with Two Rotational Fingers and Manipulation of Small Objects by Teleoperation **2008**, 11
- 179 Synthesis and photophysical properties of water-soluble dendrimers bearing a phthalocyanine core. *Journal of Porphyrins and Phthalocyanines*, **2007**, 11, 448-454 1.8 11
- 178 The Photoinduced Hydrogen Atom Transfer and trans-cis Isomerization of the C=C Double Bond in 1-(1-Hydroxy-2-naphthyl)-3-(1-naphthyl)-2-propen-1-one and Related Compounds Studied Using Nanosecond Time-Resolved Infrared Spectroscopy. *Bulletin of the Chemical Society of Japan*, **2004**, 77, 1529-1535 5.1 11
- 177 Effect of Formyl Group on Photoinduced Hydrogen Atom Transfer and cis-trans Isomerization of 2[2-(2-Pyrrolyl)ethenyl]pyridine. *Chemistry Letters*, **1998**, 27, 1153-1154 1.7 11

176	Orientation Effects on Excited State Dynamics of Zinc Porphyrin-Free Base Porphyrin-Pyromellitimide Triads. <i>Journal of Porphyrins and Phthalocyanines</i> , <b>1999</b> , 03, 729-741	1.8	11
175	Kinetic Study on Electron Transfer Photooxygenation of Aromatic Olefins. Quenching Rates of Olefin Radical Cations by Oxygen and Superoxide Anion. <i>Chemistry Letters</i> , <b>1987</b> , 16, 2121-2124	1.7	11
174	Aggregated Excimer Formation through Hydrogen Bonding in a Pyrene-Urea Derivative. <i>Bulletin of the Chemical Society of Japan</i> , <b>2015</b> , 88, 1100-1104	5.1	10
173	Impressions of Humanoids: The Development of a Measure for Evaluating a Humanoid. <i>International Journal of Social Robotics</i> , <b>2014</b> , 6, 33-44	4	10
172	Kinetic analysis of photoinduced reactions in hydrogen-bonded complexes of anthracene-urea with anions. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2012</b> , 250, 1-5	4.7	10
171	Control of singlet oxygen generation photosensitized by meso-anthrylporphyrin through interaction with DNA. <i>Photochemistry and Photobiology</i> , <b>2011</b> , 87, 833-9	3.6	10
170	Dynamic Rolling-Walk Motion by the Limb Mechanism Robot ASTERISK. <i>Advanced Robotics</i> , <b>2011</b> , 25, 75-91	1.7	10
169	The photochemical isomerization of cross-linked 1,3,5-tristyrylbenzene dendrimer with hula-twist mechanism. <i>Tetrahedron Letters</i> , <b>2005</b> , 46, 3021-3024	2	10
168	Ein sequentieller Elektronentransfer analog dem im photosynthetischen Reaktionszentrum in Diporphyrin-Porphyrin-Pyromellitimid-Triaden. <i>Angewandte Chemie</i> , <b>1996</b> , 108, 98-101	3.6	10
167	Energy migration in allophycocyanin-B trimer with a linker polypeptide: analysis by the principal multi-component spectral estimation (PMSE) method. <i>FEBS Letters</i> , <b>1994</b> , 353, 43-7	3.8	10
166	Synthesis of Natural Carotenoid-Modified Pyropheophorbide Dyads for Investigation of Carotenoid-Chlorophyll Excited State Interactions. <i>Chemistry Letters</i> , <b>1995</b> , 24, 1139-1140	1.7	10
165	Control of the intermolecular photodimerization of anthracene derivatives by hydrogen bonding of urea groups in dilute solution. <i>Photochemical and Photobiological Sciences</i> , <b>2016</b> , 15, 1071-9	4.2	10
164	Brain Machine Interface System Automation Considering User Preferences and Error Perception Feedback. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>2014</b> , 11, 1275-1281	4.9	9
163	Photochemical and Photophysical Characteristics in the Excited State Properties of Methoxy-substituted Eneidyne. <i>Chemistry Letters</i> , <b>2008</b> , 37, 174-175	1.7	9
162	Photoisomerization and Fluorescence Properties of para-Substituted Benzyl Ether-Type Stilbene Dendrimers. <i>Bulletin of the Chemical Society of Japan</i> , <b>2007</b> , 80, 586-588	5.1	9
161	Synthesis of 1,2-Phenylene-Bridged Diporphyrin Linked with Porphyrin Monomer and Its Intramolecular Singlet-Singlet Excitation Energy Transfer. <i>Chemistry Letters</i> , <b>1993</b> , 22, 161-164	1.7	9
160	Mechanism of Cis-Trans Isomerization of Fluoranthenylethylenes on Direct Irradiation. <i>Bulletin of the Chemical Society of Japan</i> , <b>1991</b> , 64, 1601-1606	5.1	9
159	Energy transfer processes in Rhodospseudomonas palustris grown under low-light conditions. Heterogeneous composition of LH 2 complexes and parallel energy flow pathways. <i>FEBS Letters</i> , <b>1993</b> , 329, 319-23	3.8	9

158	Wavelength-dependent Photofading of Zinc Phthalocyanin in the Presence of an Electron Donor. <i>Chemistry Letters</i> , <b>1990</b> , 19, 1935-1936	1.7	9
157	Pose Estimation of Objects using Multiple ID Devices. <i>Journal of the Robotics Society of Japan</i> , <b>2005</b> , 23, 84-94	0.1	9
156	Relationship between familiarity and humanness of robots [Quantification of psychological impressions toward humanoid robots. <i>Advanced Robotics</i> , <b>2014</b> , 28, 821-832	1.7	8
155	Real-time trajectory planning for mobile manipulator using model predictive control with constraints <b>2011</b> ,		8
154	Remote Controlled Intramolecular Exciplex Formation and Enhanced Photoisomerization in Stilbene-cored Poly(benzyl ether) Dendrimers with Alkoxy carbonyl Surface Functional Groups. <i>Chemistry Letters</i> , <b>2011</b> , 40, 1124-1126	1.7	8
153	Ladder Climbing Method for the Limb Mechanism Robot ASTERISK. <i>Advanced Robotics</i> , <b>2010</b> , 24, 1557-1576		8
152	Photochemistry of linear-shaped phenylacetylenyl- and (phenylacetylenyl)phenylacetylenyl-substituted aromatic enediynes. <i>Journal of Physical Chemistry A</i> , <b>2010</b> , 114, 10929-35	2.8	8
151	Cell stiffness measurement using two-fingered microhand <b>2010</b> ,		8
150	Extremely efficient and long lifetime fluorescence of cis-stilbene contained in a rigid dendrimer. <i>Photochemical and Photobiological Sciences</i> , <b>2011</b> , 10, 1521-3	4.2	8
149	Kinetic studies of emissive guanine derivatives bearing anthracene moiety. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2011</b> , 218, 69-75	4.7	8
148	Photophysics and photochemistry of positionally isomeric 1,2-dianthryltetramethyldisilanes: Investigation of anthryl-anthryl and anthryl-BiSi interactions. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2011</b> , 218, 204-212	4.7	8
147	Inhibition of the formation and decay of stilbene core radical cations by the dendron during the photoinduced electron transfer. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 973-6	3.4	8
146	Dimerization by Hydrogen Bonding and Photochemical Properties of Dipyridone. <i>Journal of Physical Chemistry A</i> , <b>2003</b> , 107, 10039-10045	2.8	8
145	Picosecond excited-state dynamics of fixed-distance triads consisting of metalloporphyrin, doubly strapped metal-free porphyrin, and pyromellitimide. <i>Chemical Physics Letters</i> , <b>1994</b> , 225, 140-145	2.5	8
144	Self-assembly of a poly(glutamate) dendrimer: solvent-dependent expression of molecular chirality and a [2 + 2] photocrosslinking reaction. <i>Photochemical and Photobiological Sciences</i> , <b>2012</b> , 11, 1524-7	4.2	7
143	Unusually efficient trans-to-cis photoisomerization of diphenylbutadiene dendrimers in water. <i>Photochemical and Photobiological Sciences</i> , <b>2011</b> , 10, 1524-6	4.2	7
142	Ladder climbing control for limb mechanism robot ASTERISK <b>2008</b> ,		7
141	Design Optimization of a Compact 3-DOF Parallel Micro/Nano Finger Manipulator <b>2006</b> ,		7

140	Recognition of substituted cytosine derivatives by the base pairing with guanine connected to pyrene. <i>Chemical Physics Letters</i> , <b>2005</b> , 407, 58-62	2.5	7
139	Electric Field Effect on The Charge Migration of Methylene-Linked Carbazole and Terephthalic Acid Methyl Ester in PMMA Polymer Films. <i>Molecular Crystals and Liquid Crystals</i> , <b>1998</b> , 315, 181-186		7
138	Mechanism of Production of Singlet Oxygen on Photoexcitation of Drugs Inducing Photosensitivity. <i>Bulletin of the Chemical Society of Japan</i> , <b>1991</b> , 64, 2169-2173	5.1	7
137	Excitation energy relaxation and dimer formation of fluorene in Langmuir-Blodgett monolayer films. <i>Chemical Physics Letters</i> , <b>1992</b> , 197, 364-368	2.5	7
136	Synthesis of Conformationally Restricted Dimeric Porphyrins Unsymmetrically Linked with Quinone. <i>Chemistry Letters</i> , <b>1989</b> , 18, 2133-2136	1.7	7
135	Accuracy Evaluation of Parallel Mechanism Using Laser Tracking Coordinate Measuring System. <i>Transactions of the Society of Instrument and Control Engineers</i> , <b>1998</b> , 34, 726-733	0.1	7
134	Photochemical generation of the 2,2,6,6-tetramethylpiperidine-1-oxyl (TEMPO) radical from caged nitroxides by near-infrared two-photon irradiation and its cytotoxic effect on lung cancer cells. <i>Beilstein Journal of Organic Chemistry</i> , <b>2019</b> , 15, 863-873	2.5	6
133	Producing a dual-fluorescent molecule by tuning the energetics of excited-state intramolecular proton transfer. <i>Photochemical and Photobiological Sciences</i> , <b>2015</b> , 14, 1864-71	4.2	6
132	Object search using object co-occurrence relations derived from web content mining. <i>Intelligent Service Robotics</i> , <b>2014</b> , 7, 1-13	2.6	6
131	Face relighting using discriminative 2D spherical spaces for face recognition. <i>Machine Vision and Applications</i> , <b>2014</b> , 25, 845-857	2.8	6
130	Photosensitized damage of protein by fluorinated diethoxyphosphorus(V)porphyrin. <i>Journal of Porphyrins and Phthalocyanines</i> , <b>2013</b> , 17, 56-62	1.8	6
129	Component-based robot system design for grasping tasks. <i>Intelligent Service Robotics</i> , <b>2011</b> , 4, 91-98	2.6	6
128	Component-based robot software design for pick-and-place task described by SysML <b>2011</b> ,		6
127	Miniaturized Vision System for Microfluidic Devices. <i>Advanced Robotics</i> , <b>2008</b> , 22, 1207-1222	1.7	6
126	The generation of environmental map based on a NDT grid mapping -Proposal of convergence calculation corresponding to high resolution grid- <b>2008</b> ,		6
125	Control of photoisomerization of C=C double bond by hydrogen bonding and photoinduced hydrogen atom transfer. <i>Journal of Physical Organic Chemistry</i> , <b>2007</b> , 20, 864-871	2.1	6
124	Wholebody Teleoperation for Humanoid Robot by Marionette System <b>2006</b> ,		6
123	Synthesis and Photoisomerization of Enediyne-Type Dendrimers with Benzyl Ether Dendrons. <i>Bulletin of the Chemical Society of Japan</i> , <b>2007</b> , 80, 1995-2000	5.1	6

122	Fluorescence Studies on Binary Aromatic Compounds by Utilizing the Intermolecular Quadruple Hydrogen Bonding. <i>Chemistry Letters</i> , <b>2001</b> , 30, 694-695	1.7	6
121	Measurements of the electric-field-induced change in fluorescence decay profile of a mixture of ethylcarbazole and dimethylterephthalate in a PMMA polymer film. <i>Journal of Luminescence</i> , <b>2000</b> , 87-89, 791-793	3.8	6
120	Effect of Moderate Hydrogen Bonding on Tautomer Formation via Excited-State Intermolecular Proton-Transfer Reactions in an Aromatic Urea Compound with a Steric Base. <i>Journal of Physical Chemistry A</i> , <b>2020</b> , 124, 6617-6628	2.8	6
119	Kinetic analysis of tautomer forms of aromatic-urea compounds with acetate ions: solvent effect of excited state intermolecular proton transfer. <i>Photochemical and Photobiological Sciences</i> , <b>2018</b> , 17, 561-569	4.2	5
118	Development of Japanese Version of the Psychological Scale of Anthropomorphism. <i>Japanese Journal of Personality</i> , <b>2016</b> , 25, 218-225	0.5	5
117	Bacterial sheet-powered rotation of a micro-object. <i>Sensors and Actuators B: Chemical</i> , <b>2016</b> , 222, 1220-1235	1.3	5
116	Delayed Fluorescence Behaviors of Aminopyridine Oligomers: Azacalix[n](2,6)pyridines (n = 3 and 4) and Their Linear Analog. <i>Chemistry Letters</i> , <b>2014</b> , 43, 459-461	1.7	5
115	Extremely efficient photoisomerization of water-soluble diphenylbutadiene dendrimers. <i>Dyes and Pigments</i> , <b>2012</b> , 92, 802-806	4.6	5
114	Photochemistry of arylacetylenyl-substituted stilbenes. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2013</b> , 252, 203-210	4.7	5
113	Excited state intramolecular hydrogen atom transfer of phenylethynyl-substituted 2'-hydroxychalcones. <i>Research on Chemical Intermediates</i> , <b>2013</b> , 39, 61-72	2.8	5
112	Autonomous acquisition of generic handheld objects in unstructured environments via sequential back-tracking for object recognition <b>2014</b> ,		5
111	Control of Photoisomerization in Water-soluble Stilbene Dendrimers by Conformation of Dendrons: How Water-soluble Dendrimer Molecules Are Dissolved in Water. <i>Chemistry Letters</i> , <b>2012</b> , 41, 415-417	1.7	5
110	High-speed autofocusing of multisized microobjects <b>2012</b> ,		5
109	Real-time precise 3D measurement of micro transparent objects using All-In-Focus imaging system. <i>Journal of Micro-Nano Mechatronics</i> , <b>2012</b> , 7, 21-31		5
108	A new multi-scale micromanipulation system with dexterous motion <b>2009</b> ,		5
107	Coordination control of intramolecular electron transfer in boronate ester-bridged donor-acceptor molecules. <i>Chemical Communications</i> , <b>1998</b> , 1539-1540	5.8	5
106	Cyclodextrin nanocavity caging effect on electronic dephasing. <i>ChemPhysChem</i> , <b>2008</b> , 9, 241-4	3.2	5
105	Emergent walking stop using 3-D ZMP modification criteria map for humanoid robot. <i>Proceedings - IEEE International Conference on Robotics and Automation</i> , <b>2007</b> ,		5

104	Isomer Specific Solvent Effect on Photoisomerization of Photoresponsive Polyphenylene Dendrimers with a Stilbene Core. <i>Bulletin of the Chemical Society of Japan</i> , <b>2007</b> , 80, 2226-2228	5.1	5
103	Time-resolved analysis of intramolecular electronic energy transfer in methylenes-linked naphthalene- $\pi$ -anthracene compounds in solution and in stretched polymer films. <i>Journal of Luminescence</i> , <b>2003</b> , 102-103, 278-282	3.8	5
102	Effect of Serum Albumins from Several Mammals on the Photoisomerization of Bilirubin. <i>Bulletin of the Chemical Society of Japan</i> , <b>1993</b> , 66, 1586-1588	5.1	5
101	Substituent Effect of Formyl Group on Photochemical Properties of 2-(2'-hydroxyphenyl)Benzazole Derivative. <i>Bulletin of the Chemical Society of Japan</i> , <b>2016</b> , 89, 876-878	5.1	4
100	BMI-based learning system for appliance control automation <b>2013</b> ,		4
99	Time-resolved fluorescence of $\pi$ -di(1-naphthyl)oligosilanes and 1-naphthyloligosilanes: intramolecular excimer formation and charge-transfer interactions. <i>Research on Chemical Intermediates</i> , <b>2013</b> , 39, 347-357	2.8	4
98	Photochemical Characteristics of Amphiphilic Stilbene Dendrimers Induced by Aggregate Formation at Very Low Concentration. <i>Chemistry Letters</i> , <b>2013</b> , 42, 535-537	1.7	4
97	Energy Transfer and $\pi$ -isomerization in Dendrimer Aggregates. <i>Bulletin of the Chemical Society of Japan</i> , <b>2011</b> , 84, 363-365	5.1	4
96	High Binding Affinity of DABCO with Porphyrin in a Porphyrin-cis-Stilbene-Porphyrin Triad. <i>Heterocycles</i> , <b>2009</b> , 79, 331	0.8	4
95	Stilbene-cored poly(glutamate) dendrimers. <i>Tetrahedron Letters</i> , <b>2009</b> , 50, 7074-7078	2	4
94	Synthesis and Photochemical Characteristics of Amphiphilic Ene-diyne Dendrimers. <i>Bulletin of the Chemical Society of Japan</i> , <b>2009</b> , 82, 723-729	5.1	4
93	Dismantling interior facilities in buildings by human robot collaboration <b>2008</b> ,		4
92	Detection of screws on metal-ceiling structures for dismantling tasks in buildings <b>2008</b> ,		4
91	Effect of Methoxy Substituents on the Excited State Properties of Stilbene. <i>Bulletin of the Chemical Society of Japan</i> , <b>2008</b> , 81, 1500-1504	5.1	4
90	Time-resolved Fluorescence Decay Analysis of Photoresist Film by GaN LD Pumped Single-Photon Counting Method. <i>Journal of Photopolymer Science and Technology = [Fotopolyma Konwakai Shi]</i> , <b>2007</b> , 20, 265-269	0.7	4
89	Unusual Solvatochromism Based on Intramolecular Hydrophobic Interaction in Water-soluble Azobenzene Dendrimers. <i>Chemistry Letters</i> , <b>2005</b> , 34, 310-311	1.7	4
88	Remarkable Electric Field Effect on the Absorption Intensity of a Molecular Aggregate of Photomerocyanine in a PMMA Polymer Film. <i>Chemistry Letters</i> , <b>1999</b> , 28, 165-166	1.7	4
87	Electrochemical Reversibility in Reduction and Irreversibility in Oxidation of Xanthene Dyes. <i>Electrochemistry</i> , <b>1994</b> , 62, 183-184		4

86	Compact ultrafast microchannel plate photomultiplier tube <b>1992</b> , 1640, 440		4
85	Effects of Organic Solvents on Charge Separation in Photo-induced Electron Transfer from Xanthene Dyes to Methyl Viologen. <i>Chemistry Letters</i> , <b>1989</b> , 18, 1555-1558	1.7	4
84	Photochemistry and aggregation behavior of triethylene glycol (TEG) terminated stilbene dendrimers. <i>Photochemical and Photobiological Sciences</i> , <b>2017</b> , 16, 1490-1494	4.2	3
83	Pose Estimation of Construction Materials Using Multiple ID Devices for Parts and Packets Unification. <i>Computer-Aided Civil and Infrastructure Engineering</i> , <b>2011</b> , 26, 356-367	8.4	3
82	Virtual impedance model for obstacle avoidance in a limb mechanism robot <b>2010</b> ,		3
81	Vision-based object search in unknown human environment using object Co-occurrence Graph <b>2011</b> ,		3
80	Fluorescence Characteristics of Naphthalene Dendrimers at Low Concentration in Aqueous Solution. <i>Bulletin of the Chemical Society of Japan</i> , <b>2009</b> , 82, 242-248	5.1	3
79	Obstacle avoidance using virtual impedance wall for limb mechanism robot <b>2009</b> ,		3
78	Collaborative Monitoring Using UFAM and Mobile Robot <b>2007</b> ,		3
77	Adaptive Relocation of Environment-Attached Storage Devices for Knowledge-Sharing among Autonomous Robots. <i>Journal of the Robotics Society of Japan</i> , <b>2002</b> , 20, 631-639	0.1	3
76	Omni-directional Locomotion of Robots with Limb Mechanism. <i>Journal of the Robotics Society of Japan</i> , <b>2004</b> , 22, 329-335	0.1	3
75	Mobile Manipulation Control for Humanoid Robots-Control of Center of Mass Position Considering the Hand Reflect Forces-. <i>Journal of the Robotics Society of Japan</i> , <b>2006</b> , 24, 614-622	0.1	3
74	Relaxation process of S2 excited zinc porphyrin through interaction with a directly connected phenanthryl group. <i>Chemical Physics Letters</i> , <b>2019</b> , 732, 136652	2.5	2
73	A Drastic Red-shift of Tautomer Fluorescence Depending on the Substitution Pattern of PyreneUrea Compounds Generated by Excited State Intermolecular Proton Transfer. <i>Chemistry Letters</i> , <b>2018</b> , 47, 483-486	1.7	2
72	Design and fabrication of micro/bio chip for in vitro fabrication of toroidal cellular aggregates <b>2014</b> ,		2
71	Web-enhanced object category learning for domestic robots. <i>Intelligent Service Robotics</i> , <b>2013</b> , 6, 53-67	2.6	2
70	Photoisomerization and Photoinduced Intramolecular Hydrogen Atom Transfer of 2-[2-(2-Pyrrolyl)ethenyl]pyridine Derivatives. <i>Bulletin of the Chemical Society of Japan</i> , <b>2015</b> , 88, 963-965 <sup>5.1</sup>		2
69	Keyframe Selection Framework Based on Visual and Excitement Features for Lifelog Image Sequences. <i>International Journal of Social Robotics</i> , <b>2015</b> , 7, 859-874	4	2



68	BMI-based framework for teaching and evaluating robot skills <b>2014,</b>		2
67	Optimization of obstacle avoidance using reinforcement learning <b>2012,</b>		2
66	Workspace optimization for multi-scale micromanipulation system <b>2010,</b>		2
65	Multiple cell suction and supply system for automated cell manipulation on microfluidic channel <b>2011,</b>		2
64	Visual and physical segmentation of novel objects <b>2011,</b>		2
63	Software interface for controlling diverse robotic platforms using BMI <b>2012,</b>		2
62	Internal force control for rolling operation of polygonal prism <b>2009,</b>		2
61	Photochemical Properties of 3,3?-Disubstituted Stilbene Dendrimers. <i>Bulletin of the Chemical Society of Japan</i> , <b>2009</b> , 82, 603-605	5.1	2
60	Cell Analysis System Using Two-fingered Micro Hand -Fine adjustment mechanism for end-effector- <b>2008,</b>		2
59	Micro-Nano Two-Fingered Hybrid Manipulator Hand <b>2007,</b>		2
58	Exciplex Formation of Intermolecularly Hydrogen-Bonded System between Anthracene and N,N-Dimethylaniline Derivatives. <i>Bulletin of the Chemical Society of Japan</i> , <b>2006</b> , 79, 1950-1954	5.1	2
57	Calibration Method with Simplified Measurement for Parallel Mechanism. <i>Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C</i> , <b>2005</b> , 71, 206-213		2
56	Parallel Mechanism with Adjustable Link Parameters. <i>Journal of the Robotics Society of Japan</i> , <b>2004</b> , 22, 140-147	0.1	2
55	Wholebody Tele-operation for Humanoid Robot by Marionette System. <i>Journal of the Robotics Society of Japan</i> , <b>2007</b> , 25, 457-465	0.1	2
54	A Dual Emissive Coumarin-urea Derivative with an Electron-withdrawing Substituent in the Presence of Acetate Anion. <i>Photochemistry and Photobiology</i> , <b>2020</b> , 96, 21-27	3.6	2
53	Brain signal-based safety measure activation for robotic systems. <i>Advanced Robotics</i> , <b>2015</b> , 29, 1234-1242	2.7	1
52	Dendritic Effect on the Photoisomerization of 4,4?-Distyrylbiphenyl in Aqueous Solution. <i>Bulletin of the Chemical Society of Japan</i> , <b>2016</b> , 89, 911-913	5.1	1
51	Photoinduced Hydrogen Atom Transfer in 2-(2?-Hydroxyphenyl)benzimidazole Substituted with Anthracene. <i>Bulletin of the Chemical Society of Japan</i> , <b>2014</b> , 87, 835-837	5.1	1

50	Intramolecular energy transfer and photoisomerization in stilbene dendrimers. <i>Canadian Journal of Chemistry</i> , <b>2017</b> , 95, 1013-1023	0.9	1
49	Development of multifunctional robot hand for visual inspection equipped with 3D force sensing <b>2015</b> ,		1
48	Microfluidic device for automated generation of toroidal-like spheroids <b>2013</b> ,		1
47	Rotation control of polygonal prism by multi-legged robot <b>2010</b> ,		1
46	Adaptive gait for dynamic rotational walking motion by ASTERISK <b>2011</b> ,		1
45	Micro valve system for individual cell transportation in microfluidic chip <b>2009</b> ,		1
44	Optimization of grid wall walking by genetic algorithm <b>2009</b> ,		1
43	Adding image information corresponding to the shape of the objects' surfaces on environmental maps <b>2011</b> ,		1
42	Generic object classifiers based on real image selection from the web <b>2011</b> ,		1
41	Cell hardness measurement by using two-fingered microhand with micro force sensor <b>2011</b> ,		1
40	Measurement of particle position in micro channel using two-layer POF array <b>2012</b> ,		1
39	Optimization of a Hybrid Two-Fingered Micro Hand Using Genetic Algorithms <b>2008</b> ,		1
38	Real-time Obstacle Avoidance with Collision Jacobian for Robot Arm.. <i>Journal of the Robotics Society of Japan</i> , <b>2000</b> , 18, 555-560	0.1	1
37	Distributed Control of Hyper-redundant Manipulator with Expansion and Contraction Motion(Position Control and Application to Planar Manipulator.). <i>Journal of the Robotics Society of Japan</i> , <b>2001</b> , 19, 197-206	0.1	1
36	Mobile Manipulation of Humanoid Robots. Analysis of the Required Function of Legs in Mobile Manipulation.. <i>Journal of the Robotics Society of Japan</i> , <b>2001</b> , 19, 660-666	0.1	1
35	Tension Control and Force Estimation of Hybrid Drive Parallel Arm. <i>Journal of the Robotics Society of Japan</i> , <b>2003</b> , 21, 436-443	0.1	1
34	Detection for Particles Moving in Micro Channel with Multifiber Array Sensor. <i>IEEJ Transactions on Sensors and Micromachines</i> , <b>2012</b> , 132, 203-211	0.2	1
33	Opposite substituent effects in the ground and excited states on the acidity of N-H fragments involved in proton transfer reaction in aromatic urea compounds. <i>Photochemical and Photobiological Sciences</i> , <b>2021</b> , 20, 523-532	4.2	1

32	A 3D culture model study monitoring differentiation of dental epithelial cells into ameloblast-like cells. <i>RSC Advances</i> , <b>2016</b> , 6, 62109-62118	3.7	1
31	Windmill-Like Porphyrin Arrays as Potent Light-Harvesting Antenna Complexes <b>1998</b> , 37, 3023		1
30	Multi-molecular emission of a cationic Pt(ii) complex through hydrogen bonding interactions. <i>Dalton Transactions</i> , <b>2018</b> , 47, 4087-4092	4.3	0
29	Generating Whole Body Motion of Humanoid Robots for Manipulation Tasks. <i>Journal of the Robotics Society of Japan</i> , <b>2005</b> , 23, 967-976	0.1	0
28	Study on the Isomerization of Amphiphilic Azobenzene Cored Dendrimer and Its Molecular Environment. <i>Bulletin of the Chemical Society of Japan</i> , <b>2018</b> , 91, 1364-1368	5.1	
27	Photoisomerization and Single Bond Rotation in trans-1,2-Di(2-naphthyl)ethene-Cored Dendrimers. <i>Bulletin of the Chemical Society of Japan</i> , <b>2014</b> , 87, 1104-1106	5.1	
26	Substituent Effect on the Photochemical and Photophysical Properties of 4,4'-Distyrylbiphenyl Derivatives. <i>Bulletin of the Chemical Society of Japan</i> , <b>2017</b> , 90, 1337-1339	5.1	
25	Photochemistry and Photophysics of Eneidyne-Cored Polyphenylene Dendrimers. <i>Bulletin of the Chemical Society of Japan</i> , <b>2017</b> , 90, 820-825	5.1	
24	Solvent Effect on Fluorescence Properties of Stilbene Dendrimer Surrounded by Benzyl-Ether Dendrons. <i>Bulletin of the Chemical Society of Japan</i> , <b>2015</b> , 88, 1105-1107	5.1	
23	Photoisomerization and Fluorescence Characteristics of Tetramethoxystilbene in Ionic Liquid. <i>Chemistry Letters</i> , <b>2011</b> , 40, 594-596	1.7	
22	Calibration Method for Parallel Mechanism using Micro Grid Pattern. <i>Journal of Environment and Engineering</i> , <b>2011</b> , 6, 739-752		
21	Emergent Stop by Using Preview ZMP Criteria Map for Humanoid Robot(Mechanical Systems). <i>Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C</i> , <b>2009</b> , 75, 2986-2995		
20	Leg-Wheel Hybrid Locomotion for Multi-Legged Robot(Mechanical Systems). <i>Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C</i> , <b>2009</b> , 75, 2996-3004		
19	2A1-K01 Automated Cell Supply Module Cell Detection and Control in a Micro-chip. <i>The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec)</i> , <b>2009</b> , 2009, _2A1-K01_1-_2A1-K01_9		
18	A Control Method of Mobile Manipulator Using Virtual Impedance Wall for Human/Robot Collaboration Object Transfer Task. <i>Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C</i> , <b>2007</b> , 73, 2115-2122		
17	Study on Oxygen Quenching Processes of the Excited State Dendrimer Molecules. <i>Chemistry Letters</i> , <b>2005</b> , 34, 684-685	1.7	
16	1,3-Dioxane-Bridged Pyromellitimide-Pyropheophorbide and Pyropheophorbide Dimer. <i>Chemistry Letters</i> , <b>1993</b> , 22, 2141-2144	1.7	
15	Medical Manipulator with Position and Orientation Transmitter by Lever and Parallel-Link : Basic Concept and Prototype. <i>The Proceedings of the JSME Annual Meeting</i> , <b>2000</b> , 2000.1, 329-330		

- 14 Micro/Nano-Manipulation: Visions and Issues. *Journal of the Robotics Society of Japan*, **2002**, 20, 140-142 0.1
- 13 1A1-C35 Design of a Compact 3-DOF Parallel Micro Finger Manipulator. *The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec)*, **2006**, 2006, \_1A1-C35\_1-\_1A1-C35\_4 0
- 12 Technology for Micro-Scale Manipulation. *Journal of the Robotics Society of Japan*, **2007**, 25, 182-185 0.1
- 11 2P1-B13 Detection of Screws on Metal Ceiling Structures for Dismantling Interior of Building. *The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec)*, **2008**, 2008, \_2P1-B13\_1-\_2P1-B13\_4 0
- 10 Theoretical Analysis of Fluorescence Behaviors of the Excited State Proton Transfer in Anthracene-Urea Derivative. *Journal of Computer Chemistry Japan*, **2019**, 18, 254-256 0.2
- 9 Soft Robotics. Soft Supprot.. *Journal of the Robotics Society of Japan*, **1999**, 17, 774-777 0.1
- 8 S1510104 Infrastructure Inspection by Multi-legged Robot equipped with Electromagnet. *The Proceedings of Mechanical Engineering Congress Japan*, **2015**, 2015, \_S1510104--\_S1510104- 0
- 7 Extraction of Grasping Region of Object for Automatic Modeling by Observing Human-object Interaction. *The Abstracts of the International Conference on Advanced Mechatronics Toward Evolutionary Fusion of IT and Mechatronics ICAM*, **2015**, 2015.6, 131-132
- 6 Microfluidic device to apply a mechanical stimulus and enable response evaluation onto cellular nucleus. *The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec)*, **2017**, 2017, 2A1-F03 0
- 5 Automated Three-Dimensional Pose Estimation of Objects using Multiple ID Devices by Autonomous Robot. *The Abstracts of the International Conference on Advanced Mechatronics Toward Evolutionary Fusion of IT and Mechatronics ICAM*, **2010**, 2010.5, 534-539
- 4 Photochromism of Organic Compounds Undergoing Isomerization Around the C=C Double Bond and/or Intramolecular Hydrogen Atom Transfer: Small and Large Structural Change **2013**, 247-271
- 3 Multi-Lighting for Unknown Objects Segmentation in Cluttered Environment. *SICE Journal of Control Measurement and System Integration*, **2014**, 7, 90-95 0.3
- 2 Photochemical properties of enediyne-cored dendrimers bearing naphthalenes at the periphery. *Canadian Journal of Chemistry*, **2019**, 97, 112-119 0.9
- 1 The Switching from Cis-to-trans One-way Photoisomerization to Mutual Photoisomerization of a Stilbene-Urea Compound Triggered by Proton Transfer Reaction. *Chemistry Letters*, **2018**, 47, 536-539 1.7