

Tsuyoshi Akiyama

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110
papers

2,509
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h-index

46
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112
ext. papers

2,629
ext. citations

3
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L-index

#	Paper	IF	Citations
110	Linkage and Solvent Dependence of Photoinduced Electron Transfer in Zincporphyrin-C60Dyads. <i>Journal of the American Chemical Society</i> , 1996 , 118, 11771-11782	16.4	341
109	Efficient photocurrent generation in novel self-assembled multilayers comprised of [60]fullerene-cationic homooxalix[3]arene inclusion complex and anionic porphyrin polymer. <i>Journal of the American Chemical Society</i> , 2001 , 123, 4855-6	16.4	158
108	Metal-enhanced fluorescence platforms based on plasmonic ordered copper arrays: wavelength dependence of quenching and enhancement effects. <i>ACS Nano</i> , 2013 , 7, 9997-10010	16.7	130
107	Synthesis and Photophysical Property of Porphyrin-Linked Fullerene. <i>Chemistry Letters</i> , 1995 , 24, 265-266	6.7	92
106	Photocurrent enhancement in a porphyrin-gold nanoparticle nanostructure assisted by localized plasmon excitation. <i>Chemical Communications</i> , 2006 , 395-7	5.8	85
105	Organic Photoelectrochemical Cell Mimicking Photoinduced Multistep Electron Transfer in Photosynthesis: Interfacial Structure and Photoelectrochemical Properties of Self-Assembled Monolayers of Porphyrin-Linked Fullerenes on Gold Electrodes. <i>Bulletin of the Chemical Society of Japan</i> , 1999 , 72, 485-502	5.1	85
104	Facile Fabrication of Photoelectrochemical Assemblies Consisting of Gold Nanoparticles and a Tris(2,2'Ebipyridine)ruthenium(II)Viologen Linked Thiol. <i>Langmuir</i> , 2001 , 17, 5714-5716	4	66
103	Synthesis and Self-Assembly of Porphyrin-linked Fullerene on Gold Surface Using S-Au Linkage. <i>Chemistry Letters</i> , 1996 , 25, 907-908	1.7	64
102	Effects of Silver Nanoparticles on Photoelectrochemical Responses of Organic Dyes. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 11830-11835	3.8	63
101	Enormous enhancement in photocurrent generation using electrochemically fabricated gold nanostructures. <i>Chemical Communications</i> , 2010 , 46, 306-8	5.8	58
100	Control of electron transfer and its utilization. <i>Pure and Applied Chemistry</i> , 1997 , 69, 1951-1956	2.1	57
99	Solar cells using iodine-doped polythiopheneβporphyrin polymer films. <i>Solar Energy Materials and Solar Cells</i> , 2006 , 90, 1322-1330	6.4	55
98	Plasmon-enhanced photocurrent generation from self-assembled monolayers of phthalocyanine by using gold nanoparticle films. <i>Langmuir</i> , 2009 , 25, 3887-93	4	54
97	Structures and photovoltaic properties of copper oxides/fullerene solar cells. <i>Journal of Physics and Chemistry of Solids</i> , 2011 , 72, 1206-1211	3.9	52
96	Microstructures and photovoltaic properties of C60 based solar cells with copper oxides, CuInS2, phthalocyanines, porphyrin, PVK, nanodiamond, germanium and exciton diffusion blocking layers. <i>Materials Technology</i> , 2013 , 28, 21-39	2.1	46
95	Structural Characterization and Photoelectrochemical Properties of the Self-Assembled Monolayers of Tris(2,2'Ebipyridine)ruthenium(II)Viologen Linked Compounds Formed on the Gold Surface. <i>Langmuir</i> , 2002 , 18, 8666-8671	4	46
94	Fabrication and Characterization of ZnO/Cu2O Solar Cells Prepared by Electrodeposition. <i>Applied Physics Express</i> , 2013 , 6, 086503	2.4	45

93	A photoelectronic switching device using a mixed self-assembled monolayer. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 3944-8	3.4	39
92	Molecular logic devices using mixed self-assembled monolayers. <i>Thin Solid Films</i> , 2006 , 499, 354-358	2.2	36
91	Preparation of Molecular Assemblies of Porphyrin-Linked Alkanethiol on Gold Surface and Their Redox Properties. <i>Chemistry Letters</i> , 1994 , 23, 1447-1450	1.7	35
90	Development of Plasmonic CuO/Cu Composite Arrays as Visible- and Near-Infrared-Light-Driven Plasmonic Photocatalysts. <i>Langmuir</i> , 2017 , 33, 5685-5695	4	34
89	Fabrication and Characterization of TiO ₂ /CH ₃ NH ₃ PbI ₃ -based Photovoltaic Devices. <i>Chemistry Letters</i> , 2014 , 43, 916-918	1.7	34
88	Densely arranged two-dimensional silver nanoparticle assemblies with optical uniformity over vast areas as excellent surface-enhanced Raman scattering substrates. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 15802-5	3.6	34
87	Construction of gold nanoparticle-ruthenium (II) tris(2,2'-bipyridine) self-assembled multistructures and their photocurrent responses. <i>Thin Solid Films</i> , 2001 , 393, 273-277	2.2	34
86	Particle size dependence of the surface-enhanced Raman scattering properties of densely arranged two-dimensional assemblies of Au(core)-Ag(shell) nanospheres. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 21182-9	3.6	33
85	Electropolymerized polythiophene photoelectrodes with density-controlled gold nanoparticles. <i>Langmuir</i> , 2012 , 28, 9155-60	4	32
84	Fabrication of porphyrin-titanium oxide-fullerene assemblies on an ITO electrode and their photocurrent responses. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2000 , 169, 137-141	5.1	30
83	Particle-size effects on the photocurrent efficiency of nanostructured assemblies consisting of gold nanoparticles and a ruthenium complex-viologen linked thiol. <i>Journal of Electroanalytical Chemistry</i> , 2003 , 550-551, 303-307	4.1	27
82	Enhanced Absorption and Emission in a Copper Phthalocyanine-Gold Nanoparticle System Assisted by Localized Surface Plasmon. <i>Chemistry Letters</i> , 2009 , 38, 326-327	1.7	22
81	Gold nanoparticle-porphyrin self-assembled multistructures for photoelectric conversion. <i>Thin Solid Films</i> , 2003 , 438-439, 70-74	2.2	22
80	Effects of spacer-chain length on the photoelectrochemical responses of monolayer assemblies with ruthenium tris(2,2'-bipyridine) - viologen linked disulfides. <i>Thin Solid Films</i> , 1999 , 350, 223-227	2.2	20
79	Fabrication and characterization of fullerene-based solar cells containing phthalocyanine and naphthalocyanine dimers. <i>Synthetic Metals</i> , 2013 , 177, 48-51	3.6	18
78	Microstructures and Photovoltaic Properties of Polysilane-Based Solar Cells. <i>Japanese Journal of Applied Physics</i> , 2013 , 52, 04CR07	1.4	18
77	Step-by-Step Fabrication of Porphyrin-Fullerene Supramolecular Assemblies and Their Photoelectrochemical Properties. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 7015-7020	3.8	18
76	Solid-State Solar Cells Consisting of Polythiophene-Porphyrin Composite Films. <i>Japanese Journal of Applied Physics</i> , 2005 , 44, 2799-2802	1.4	18

75	Fabrication of Densely Packed Gold Nanoparticle Films and Their Fluorescence Enhancement Effect. <i>Japanese Journal of Applied Physics</i> , 2008 , 47, 3063-3066	1.4	17
74	Selective formation and structural properties of rhombic dodecahedral [70]fullerene microparticles formed by reaction with aliphatic diamines. <i>Langmuir</i> , 2010 , 26, 4274-80	4	16
73	Photocurrent enhancement of porphyrin molecules over a wide-wavelength region based on combined use of silver nanoprisms with different aspect ratios. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 11439-11448	7.1	15
72	Facile fabrication of morphology-controlled gold nanoparticle architectures by electrolyte-induced agglomeration and their photoelectrochemical applications. <i>Langmuir</i> , 2005 , 21, 793-6	4	15
71	Structural Characterization and Photocurrent Properties of cis-di(thiocyanato)-bis(4,4'-dicarboxy-2,2'-bipyridine) Ruthenium(II) Monolayers on the Gold Surfaces. <i>Japanese Journal of Applied Physics</i> , 2005 , 44, 2795-2798	1.4	15
70	Photocurrent generation properties of electrochemically polymerized terthiophene-linked fullerene film. <i>Synthetic Metals</i> , 2009 , 159, 965-968	3.6	14
69	Shape Control of Fullerene Microparticles by Using Ethylenediamine. <i>Chemistry Letters</i> , 2008 , 37, 932-933	3.7	14
68	Fabrication of a Novel Photoelectric Conversion Device Consisting of a Poly-3-dodecylthiophene Film and C60 Fullerene-Ethylenediamine Nanoparticles. <i>Chemistry Letters</i> , 2007 , 36, 934-935	1.7	14
67	Precise Control of Localized Surface Plasmon Wavelengths Is Needed for Effective Enhancement of Triplet-Triplet Annihilation-Based Upconversion Emission. <i>ACS Photonics</i> , 2018 , 5, 5025-5037	6.3	14
66	Microstructures, optical and photoelectric conversion properties of spherical silicon solar cells with anti-reflection SnO _x :F thin films. <i>Japanese Journal of Applied Physics</i> , 2014 , 53, 05FJ03	1.4	13
65	Fabrication and Photoelectrochemical Properties of Polythiophene-Porphyrin Composite Films. <i>Japanese Journal of Applied Physics</i> , 2004 , 43, 2306-2310	1.4	13
64	Bi-directional photocurrent generation dependent on the wavelength of irradiation of a mixed monolayer assembly. <i>Photochemical and Photobiological Sciences</i> , 2004 , 3, 26-8	4.2	13
63	Efficient Photocurrent Enhancement from Porphyrin Molecules on Plasmonic Copper Arrays: Beneficial Utilization of Copper Nanoantennae on Plasmonic Photoelectric Conversion Systems. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 750-762	9.5	12
62	Fabrication and characterization of tetracyanoquinodimethane/phthalocyanine solar cells. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2012 , 177, 877-881	3.1	12
61	Structural Characterization and Photoelectrochemical Properties of Gold Nanoparticle Multistructures Prepared by Layer-by-Layer Deposition. <i>Japanese Journal of Applied Physics</i> , 2009 , 48, 04C132	1.4	12
60	Characterization and Evaluation of Role of Porphyrin Moiety in meso-Tetrathienylporphyrin-Polythiophene Composite Film. <i>Japanese Journal of Applied Physics</i> , 2007 , 46, 2632-2635	1.4	12
59	A Z-scheme type photoelectrochemical cell consisting of porphyrin-containing polymer and dye-sensitized TiO ₂ electrodes. <i>Photochemical and Photobiological Sciences</i> , 2010 , 9, 1085-7	4.2	11
58	C60-Ethylenediamine adduct thin film as a buffer layer for inverted-type organic solar cells. <i>RSC Advances</i> , 2014 , 4, 34950	3.7	10

57	Facile Fabrication and Photovoltaic Application of [60]Fullerene Assembly Films Formed by Reaction between Fullerene and Amines. <i>Bulletin of the Chemical Society of Japan</i> , 2014 , 87, 1335-1342	5.1	10
56	Fabrication and characterization of PCBM:P3HT:silicon phthalocyanine bulk heterojunction solar cells with inverted structures. <i>Japanese Journal of Applied Physics</i> , 2014 , 53, 05FJ08	1.4	10
55	Facile Fabrication and Photocurrent Generation Properties of Electrochemically Polymerized Fullerene/Poly(ethylene dioxythiophene) Composite Films. <i>Japanese Journal of Applied Physics</i> , 2009 , 48, 04C172	1.4	10
54	Preparation and characterization of porphyrin/polythiophene stacked films as prepared by electrochemical method under stirring condition. <i>Thin Solid Films</i> , 2008 , 516, 2502-2506	2.2	10
53	Novel Photoelectrochemical Cell Using a Self-Assembled Monolayer of a Ruthenium (II) Tris(2,2'-bipyridine) Thiol Derivative. <i>Japanese Journal of Applied Physics</i> , 2002 , 41, 4737-4738	1.4	10
52	Preparation and Photoelectrochemical Properties of a Self-Assembled Monolayer of a Ruthenium Tris(2,2'-bipyridine)-viologen 1:2 Linked Compound. <i>Chemistry Letters</i> , 2000 , 29, 668-669	1.7	10
51	Photocurrent enhancement tuned with plasmonic resonance in self-assembled monolayers fabricated on regularly arrayed gold nanostructures. <i>Photochemical and Photobiological Sciences</i> , 2012 , 11, 318-22	4.2	9
50	Facile Solubilization and Photovoltaic Application of C60 Fullerene/Ethylenediamine Adduct. <i>Chemistry Letters</i> , 2013 , 42, 177-179	1.7	9
49	Facile Fabrication and Photoelectrochemical Properties of Porphyrin/Fullerene Assemblies by Self-Assembly and Surface Sol-Gel Processes. <i>Japanese Journal of Applied Physics</i> , 2006 , 45, 3758-3761	1.4	9
48	Fabrication of a Photoelectrochemical Cell Using a Self-Assembled Monolayer of Tris(2,2'-bipyridine)ruthenium(II)-Viologen Linked Thiol on Multistructured Gold Nanoparticles. <i>Japanese Journal of Applied Physics</i> , 2004 , 43, 2372-2375	1.4	9
47	Fabrication and photoelectrochemical properties of electron donor/acceptor assemblies via titanium oxide interlayers. <i>Thin Solid Films</i> , 2003 , 438-439, 230-234	2.2	9
46	A double-driven photoelectrochemical cell. <i>Synthetic Metals</i> , 2003 , 139, 511-514	3.6	9
45	Extraordinary enhancement of porphyrin photocurrent utilizing plasmonic silver arrays. <i>Nanoscale</i> , 2016 , 8, 15467-72	7.7	8
44	Open-shell singlet diradicaloid difluoreno[4,3-b:3'-4'-fd]furan and its radical cation and dianion. <i>Chemical Communications</i> , 2020 , 56, 5881-5884	5.8	8
43	Fabrication of dense two-dimensional assemblies over vast areas comprising gold(core)-silver(shell) nanoparticles and their surface-enhanced Raman scattering properties. <i>Photochemical and Photobiological Sciences</i> , 2014 , 13, 82-91	4.2	7
42	Effect of gold nanoparticle in hole-transport layer on inverted organic thin-film solar cell performance. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014 , 211, 1645-1650	1.6	7
41	Effects of Film Thickness on the Photocurrent Generation from Polythiophene/Fullerene Thin Films Containing Silver Nanoparticles. <i>Japanese Journal of Applied Physics</i> , 2012 , 51, 02BK04	1.4	7
40	Facile Fabrication of Gold Nanoparticle/Titanium Oxide Alternate Assemblies by Surface Sol-Gel Process. <i>Japanese Journal of Applied Physics</i> , 2007 , 46, 2490-2492	1.4	7

39	Facile Fabrication and Raman Scattering Enhancement Properties of Mixed Gold and Silver Nanoparticle Layers. <i>E-Journal of Surface Science and Nanotechnology</i> , 2012 , 10, 157-160	0.7	6
38	Mixing Effect of Gold and Silver Nanoparticles on Enhancement in Performance of Organic Thin-Film Solar Cells. <i>Japanese Journal of Applied Physics</i> , 2013 , 52, 122301	1.4	6
37	Photochemical half-cells using mixture films of fullerene-ethylenediamine adduct microparticles and polythiophene. <i>Journal of Physics: Conference Series</i> , 2013 , 433, 012010	0.3	6
36	Silver-Nanoparticle-Assisted Photocurrent Generation in Polythiophene/Fullerene Thin Films. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 04DK22	1.4	6
35	Effects of Hole Transport Layer on Photoelectrochemical Responses from Polythiophene/Porphyrin Composite Polymer Electrode. <i>Applied Physics Express</i> , 2010 , 3, 122301	2.4	6
34	Cathode buffer composed of fullerene/ethylenediamine adduct for an organic solar cell. <i>Japanese Journal of Applied Physics</i> , 2017 , 56, 021601	1.4	5
33	Doping effects of transition metal elements to titanium dioxide for perovskite solar cells 2017 ,		5
32	Effect of annealing on photovoltaic properties and microstructure of conventional and inverted organic solar cells using active bilayer based on liquid-crystal semiconducting polymer and fullerene. <i>International Journal of Energy Research</i> , 2014 , 38, 1541-1550	4.5	5
31	Fabrication and characterization of organic solar cells using titanylphthalocyanine as hole transport layer. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014 , 211, 2861-2864	1.6	4
30	Formation of Thin Films of Densely Packed [60]Fullerene/Diaminoethane Adduct Microparticles at a Liquid/Liquid Interface and Their Photoelectrochemical Applications. <i>Chemistry Letters</i> , 2015 , 44, 489-491	1.7	4
29	Fabrication of C60 assembly films via an fullerene-amine addition reaction by using stepwise immersion. <i>Journal of Physics: Conference Series</i> , 2013 , 433, 012007	0.3	4
28	Fabrication and characterization of copper oxides/fullerene solar cells prepared by an electrodeposition method. <i>Journal of the Ceramic Society of Japan</i> , 2011 , 119, 402-404	1	4
27	Effects of capping layers on the photoelectrochemical property of silver nanoparticle-modified indium tin-oxide electrode. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2011 , 221, 239-243	4.7	4
26	Enhanced Photocurrent Generation in Self-Assembled Monolayers Formed at Plasmonic Gold Nanostructures. <i>Macromolecular Symposia</i> , 2008 , 270, 171-176	0.8	4
25	Low-temperature synthesis of titanium oxide/gold nanoparticle composite powders using a combination of the sol-gel process and ultraviolet light irradiation. <i>Journal of Sol-Gel Science and Technology</i> , 2016 , 78, 692-697	2.3	4
24	Fabrication and surface-enhanced Raman scattering properties of two-dimensional gold and silver nanoparticle mixed assemblies by liquid-liquid interfacial precipitation method. <i>Applied Physics Express</i> , 2020 , 13, 055001	2.4	3
23	Effects of Au nanoparticle addition to hole transfer layer in organic solar cells based on copper naphthalocyanine and fullerene. <i>Progress in Natural Science: Materials International</i> , 2014 , 24, 179-183	3.6	3
22	Incorporation Effect of Silver Nanoparticles on Inverted Type Bulk-Heterojunction Organic Solar Cells. <i>Japanese Journal of Applied Physics</i> , 2013 , 52, 04CR13	1.4	3

21	Effect of gold nanoparticles in titanium oxide layer on the photovoltaic performance of inverted-type organic thin-film solar cells. <i>Molecular Crystals and Liquid Crystals</i> , 2017 , 653, 50-56	0.5	3
20	Fabrication and photocatalytic behavior of titanium oxide-gold nanoparticles composite ultrathin films prepared using surface sol-gel process. <i>Journal of Sol-Gel Science and Technology</i> , 2020 , 93, 563-569 ²⁻³		3
19	Time-dependent non-linear size change of C60-ethylenediamine adduct particles in formation process. <i>Journal of Nanoparticle Research</i> , 2018 , 20, 1	2.3	3
18	Morphological change of crystalline polymer films by annealing: substrate- and heating/cooling-rate-dependent surface roughness. <i>Surface and Interface Analysis</i> , 2017 , 49, 577-583	1.5	2
17	Insertion effect of spin-coated films of C60-ethylenediamine adduct on organic thin-film solar cells 2018 ,		2
16	Fabrication and Photocurrent Generation Properties of Insoluble Hierarchical Polythiophene Thin Films Prepared by Sequential Electrochemical Polymerization. <i>Bulletin of the Chemical Society of Japan</i> , 2016 , 89, 700-704	5.1	2
15	Preparation and Photovoltaic Application of Fullerene-Porphyrin Composite Micropowder. <i>Chemistry Letters</i> , 2013 , 42, 694-696	1.7	2
14	Retardation of sol-gel titanium oxide with imprinted grating structure. <i>Optical Engineering</i> , 2017 , 56, 017108	1.1	1
13	Fabrication and electrochemical properties of insoluble fullerene-diamine adduct thin-films as buffer layer by alternate immersion process 2017 ,		1
12	Organic Solar Cells Based on Electrodeposited Polyaniline Films. <i>Japanese Journal of Applied Physics</i> , 2012 , 51, 04DK10	1.4	1
11	An Influence of Monomeric Porphyrin Structure on the Electropolymerized Photoactive Electrode for Polymer Solar Cells. <i>Molecular Crystals and Liquid Crystals</i> , 2011 , 538, 10-14	0.5	1
10	Electrochemical Modulation of the Optical Property of Polythiophene-Gold Nanorod Composite Films. <i>Molecular Crystals and Liquid Crystals</i> , 2011 , 539, 1/[341]-4/[344]	0.5	1
9	Tuning Optical Properties of Two-Dimensional Ordered Arrays of Silica/Gold and Silver Core/Shell Structured Nanoparticles in Near-Infrared Region. <i>Japanese Journal of Applied Physics</i> , 2012 , 51, 04DH04 ¹⁻⁴	1.4	1
8	Characterization of Copper Phthalocyanine Nanoparticles Formed by Laser Ablation in Poor Solvents. <i>E-Journal of Surface Science and Nanotechnology</i> , 2008 , 6, 312-316	0.7	1
7	One-pot synthesis of visible-light-responsive titanium oxide photocatalyst with embedded silver nanoparticles. <i>Journal of Sol-Gel Science and Technology</i> , 2021 , 98, 281-287	2.3	1
6	Preparation of silver-nanoparticle-loaded C60-ethylenediamine adduct microparticles and their application to photoelectric conversion. <i>Applied Physics Express</i> , 2021 , 14, 067003	2.4	0
5	Fabrication and surface-enhanced Raman scattering properties of thin-film assemblies of classified silver nanoparticles. <i>Japanese Journal of Applied Physics</i> , 2021 , 60, 027002	1.4	0
4	Effect of Gold and Silver Nanoparticle in Poly(3,4-Ethylenedioxythiophene)-Poly(Styrene Sulfonate) layer on Inverted-Type Organic Thin-Film Solar Cells. <i>Transactions of the Materials Research Society of Japan</i> , 2015 , 40, 331-334	0.2	

- 3 Selective implantation of gold nanoparticles onto the surface on one side of a self-standing polymer film. *RSC Advances*, **2014**, 4, 62375-62379 3-7
- 2 Fabrication and Photocurrent Generation of Multilayer Assemblies Consisting of Silver-nanoparticles, Polydiacetylene, and Polyions. *Japanese Journal of Applied Physics*, **2011**, 50, 04DH15^{1,4}
- 1 Electrochemical fabrication of hierarchical thin films consisting of different polythiophenes and change in photoelectric conversion properties with film thickness. *Japanese Journal of Applied Physics*, **2022**, 61, 061008 1.4