

Tsuyoshi Akiyama

List of Publications by Year in Descending Order

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

110
papers

2,509
citations

27
h-index

46
g-index

112
ext. papers

2,629
ext. citations

3
avg, IF

4.55
L-index

#	Paper	IF	Citations
110	Electrochemical fabrication of hierarchical thin films consisting of different polythiophenes and change in photoelectric conversion properties with film thickness. <i>Japanese Journal of Applied Physics</i> , 2022 , 61, 061008	1.4	
109	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
108	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
107	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
106	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
105	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
104	Open-shell singlet diradicaloid difluoreno[4,3-b:3'4'f]furan and its radical cation and dianion. <i>Chemical Communications</i> , 2020 , 56, 5881-5884	5.8	8
103	Insertion effect of spin-coated films of C60-ethylenediamine adduct on organic thin-film solar cells 2018 ,		2
102	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
101	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
100	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
99	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
98	Retardation of sol-gel titanium oxide with imprinted grating structure. <i>Optical Engineering</i> , 2017 , 56, 017108	1.1	1
97	Doping effects of transition metal elements to titanium dioxide for perovskite solar cells 2017 ,		5
96	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
95	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
94	Fabrication and electrochemical properties of insoluble fullerene-diamine adduct thin-films as buffer layer by alternate immersion process 2017 ,		1

93	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
92	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
91	Extraordinary enhancement of porphyrin photocurrent utilizing plasmonic silver arrays. <i>Nanoscale</i> , 2016 , 8, 15467-72	7.7	8
90	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
89	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
88	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
87	Formation of Thin Films of Densely Packed [60]FullereneDiaminoethane Adduct Microparticles at a Liquid/Liquid Interface and Their Photoelectrochemical Applications. <i>Chemistry Letters</i> , 2015 , 44, 489-491	1.7	4
86	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	
85	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
84	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
83	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
82	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
81	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
80	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
79	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
78	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
77	Selective implantation of gold nanoparticles onto the surface on one side of a self-standing polymer film. <i>RSC Advances</i> , 2014 , 4, 62375-62379	3.7	
76	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

75	Microstructures, optical and photoelectric conversion properties of spherical silicon solar cells with anti-reflection SnOx:F thin films. <i>Japanese Journal of Applied Physics</i> , 2014 , 53, 05FJ03	1.4	13
74	Fabrication and characterization of fullerene-based solar cells containing phthalocyanine and naphthalocyanine dimers. <i>Synthetic Metals</i> , 2013 , 177, 48-51	3.6	18
73	Fabrication and Characterization of ZnO/Cu2O Solar Cells Prepared by Electrodeposition. <i>Applied Physics Express</i> , 2013 , 6, 086503	2.4	45
72	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
71	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
70	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
69	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
68	Microstructures and Photovoltaic Properties of Polysilane-Based Solar Cells. <i>Japanese Journal of Applied Physics</i> , 2013 , 52, 04CR07	1.4	18
67	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
66	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
65	Preparation and Photovoltaic Application of FullerenePorphyrin Composite Micropowder. <i>Chemistry Letters</i> , 2013 , 42, 694-696	1.7	2
64	Facile Solubilization and Photovoltaic Application of C60 FullereneEthylenediamine Adduct. <i>Chemistry Letters</i> , 2013 , 42, 177-179	1.7	9
63	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
62	Organic Solar Cells Based on Electrodeposited Polyaniline Films. <i>Japanese Journal of Applied Physics</i> , 2012 , 51, 04DK10	1.4	1
61	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
60	Electropolymerized polythiophene photoelectrodes with density-controlled gold nanoparticles. <i>Langmuir</i> , 2012 , 28, 9155-60	4	32
59	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
58	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

57	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
56	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
55	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
54	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
53	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
52	Fabrication and Photocurrent Generation of Multilayer Assemblies Consisting of Silver-nanoparticles, Polydiacetylene, and Polyions. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 04DH15 ^{1.4}	1.4	15
51	Silver-Nanoparticle-Assisted Photocurrent Generation in Polythiophene/Fullerene Thin Films. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 04DK22	1.4	6
50	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
49	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
48	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
47	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
46	Enormous enhancement in photocurrent generation using electrochemically fabricated gold nanostructures. <i>Chemical Communications</i> , 2010 , 46, 306-8	5.8	58
45	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
44	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
43	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
42	Effects of Silver Nanoparticles on Photoelectrochemical Responses of Organic Dyes. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 11830-11835	3.8	63
41	Photocurrent generation properties of electrochemically polymerized terthiophene-linked fullerene film. <i>Synthetic Metals</i> , 2009 , 159, 965-968	3.6	14
40	Plasmon-enhanced photocurrent generation from self-assembled monolayers of phthalocyanine by using gold nanoparticle films. <i>Langmuir</i> , 2009 , 25, 3887-93	4	54

39	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
38	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
37	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
36	Shape Control of Fullerene Microparticles by Using Ethylenediamine. <i>Chemistry Letters</i> , 2008 , 37, 932-933	1.7	14
35	Enhanced Photocurrent Generation in Self-Assembled Monolayers Formed at Plasmonic Gold Nanostructures. <i>Macromolecular Symposia</i> , 2008 , 270, 171-176	0.8	4
34	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
33	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
32	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
31	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
30	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
29	Molecular logic devices using mixed self-assembled monolayers. <i>Thin Solid Films</i> , 2006 , 499, 354-358	2.2	36
28	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
27	Photocurrent enhancement in a porphyrin-gold nanoparticle nanostructure assisted by localized plasmon excitation. <i>Chemical Communications</i> , 2006 , 395-7	5.8	85
26	Solar cells using iodine-doped polythiophene-porphyrin polymer films. <i>Solar Energy Materials and Solar Cells</i> , 2006 , 90, 1322-1330	6.4	55
25	A photoelectronic switching device using a mixed self-assembled monolayer. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 3944-8	3.4	39
24	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
23	Solid-State Solar Cells Consisting of Polythiophene-Porphyrin Composite Films. <i>Japanese Journal of Applied Physics</i> , 2005 , 44, 2799-2802	1.4	18
22	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

21	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
20	Fabrication and Photoelectrochemical Properties of Polythiophene-Porphyrin Composite Films. <i>Japanese Journal of Applied Physics</i> , 2004 , 43, 2306-2310	1.4	13
19	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
18	Gold nanoparticle-porphyrin self-assembled multistructures for photoelectric conversion. <i>Thin Solid Films</i> , 2003 , 438-439, 70-74	2.2	22
17	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
16	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
15	A double-driven photoelectrochemical cell. <i>Synthetic Metals</i> , 2003 , 139, 511-514	3.6	9
14	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
13	Structural Characterization and Photoelectrochemical Properties of the Self-Assembled Monolayers of Tris(2,2'-bipyridine)ruthenium(II)-viologen Linked Compounds Formed on the Gold Surface. <i>Langmuir</i> , 2002 , 18, 8666-8671	4	46
12	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
11	Efficient photocurrent generation in novel self-assembled multilayers comprised of [60]fullerene-cationic homoaxalix[3]arene inclusion complex and anionic porphyrin polymer. <i>Journal of the American Chemical Society</i> , 2001 , 123, 4855-6	16.4	158
10	Facile Fabrication of Photoelectrochemical Assemblies Consisting of Gold Nanoparticles and a Tris(2,2'-bipyridine)ruthenium(II)-viologen Linked Thiol. <i>Langmuir</i> , 2001 , 17, 5714-5716	4	66
9	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
8	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
7	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
6	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
5	Control of electron transfer and its utilization. <i>Pure and Applied Chemistry</i> , 1997 , 69, 1951-1956	2.1	57
4	Linkage and Solvent Dependence of Photoinduced Electron Transfer in Zincporphyrin-C60 Dyads. <i>Journal of the American Chemical Society</i> , 1996 , 118, 11771-11782	16.4	341

- 3 Synthesis and Self-Assembly of Porphyrin-linked Fullerene on Gold Surface Using S-Au Linkage. *Chemistry Letters*, **1996**, 25, 907-908 1.7 64
- 2 Synthesis and Photophysical Property of Porphyrin-Linked Fullerene. *Chemistry Letters*, **1995**, 24, 265-266.7 92
- 1 Preparation of Molecular Assemblies of Porphyrin-Linked Alkanethiol on Gold Surface and Their Redox Properties. *Chemistry Letters*, **1994**, 23, 1447-1450 1.7 35