## Tsuyoshi Akiyama

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Linkage and Solvent Dependence of Photoinduced Electron Transfer in Zincporphyrin-C60Dyads. Journal of the American Chemical Society, 1996, 118, 11771-11782.	13.7	389
2	Efficient Photocurrent Generation in Novel Self-Assembled Multilayers Comprised of [60]Fullereneâ^'Cationic Homooxacalix[3]arene Inclusion Complex and Anionic Porphyrin Polymer. Journal of the American Chemical Society, 2001, 123, 4855-4856.	13.7	182
3	Metal-Enhanced Fluorescence Platforms Based on Plasmonic Ordered Copper Arrays: Wavelength Dependence of Quenching and Enhancement Effects. ACS Nano, 2013, 7, 9997-10010.	14.6	157
4	Synthesis and Photophysical Property of Porphyrin-Linked Fullerene. Chemistry Letters, 1995, 24, 265-266.	1.3	99
5	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. Bulletin of the Chemical Society of Japan. 1999. 72. 485-502.	3.2	97
6	Photocurrent enhancement in a porphyrin-gold nanoparticle nanostructure assisted by localized plasmon excitation. Chemical Communications, 2006, , 395-397.	4.1	91
7	Facile Fabrication of Photoelectrochemical Assemblies Consisting of Gold Nanoparticles and a Tris(2,2â€~-bipyridine)ruthenium(II)â^'Viologen Linked Thiol. Langmuir, 2001, 17, 5714-5716.	3.5	76
8	Synthesis and Self-Assembly of Porphyrin-linked Fullerene on Gold Surface Using S-Au Linkage. Chemistry Letters, 1996, 25, 907-908.	1.3	73
9	Effects of Silver Nanoparticles on Photoelectrochemical Responses of Organic Dyes. Journal of Physical Chemistry C, 2009, 113, 11830-11835.	3.1	68
10	Control of electron transfer and its utilization. Pure and Applied Chemistry, 1997, 69, 1951-1956.	1.9	66
11	Solar cells using iodine-doped polythiophene–porphyrin polymer films. Solar Energy Materials and Solar Cells, 2006, 90, 1322-1330.	6.2	65
12	Structures and photovoltaic properties of copper oxides/fullerene solar cells. Journal of Physics and Chemistry of Solids, 2011, 72, 1206-1211.	4.0	62
13	Enormous enhancement in photocurrent generation using electrochemically fabricated goldnanostructures. Chemical Communications, 2010, 46, 306-308.	4.1	60
14	Fabrication and Characterization of ZnO/Cu <sub>2</sub> O Solar Cells Prepared by Electrodeposition. Applied Physics Express, 2013, 6, 086503.	2.4	57
15	Plasmon-Enhanced Photocurrent Generation from Self-Assembled Monolayers of Phthalocyanine by Using Gold Nanoparticle Films. Langmuir, 2009, 25, 3887-3893.	3.5	56
16	Microstructures and photovoltaic properties of C <sub>60</sub> based solar cells with copper oxides, CuInS <sub>2</sub> , phthalocyanines, porphyrin, PVK, nanodiamond, germanium and exciton diffusion blocking layers. Materials Technology, 2013, 28, 21-39.	3.0	52
17	Structural Characterization and Photoelectrochemical Properties of the Self-Assembled Monolayers of Tris(2,2â€~-bipyridine)ruthenium(II)â^'Viologen Linked Compounds Formed on the Gold Surface. Langmuir, 2002, 18, 8666-8671.	3.5	49
18	A Photoelectronic Switching Device Using a Mixed Self-Assembled Monolayer. Journal of Physical Chemistry B, 2005, 109, 3944-3948.	2.6	45

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19	Particle size dependence of the surface-enhanced Raman scattering properties of densely arranged two-dimensional assemblies of Au(core)–Ag(shell) nanospheres. Physical Chemistry Chemical Physics, 2015, 17, 21182-21189.	2.8	45
20	Molecular logic devices using mixed self-assembled monolayers. Thin Solid Films, 2006, 499, 354-358.	1.8	40
21	Development of Plasmonic Cu <sub>2</sub> O/Cu Composite Arrays as Visible- and Near-Infrared-Light-Driven Plasmonic Photocatalysts. Langmuir, 2017, 33, 5685-5695.	3.5	40
22	Fabrication and Characterization of TiO2/CH3NH3PbI3-based Photovoltaic Devices. Chemistry Letters, 2014, 43, 916-918.	1.3	37
23	Preparation of Molecular Assemblies of Porphyrin-Linked Alkanethiol on Gold Surface and Their Redox Properties. Chemistry Letters, 1994, 23, 1447-1450.	1.3	36
24	Electropolymerized Polythiophene Photoelectrodes with Density-Controlled Gold Nanoparticles. Langmuir, 2012, 28, 9155-9160.	3.5	36
25	Densely arranged two-dimensional silver nanoparticle assemblies with optical uniformity over vast areas as excellent surface-enhanced Raman scattering substrates. Physical Chemistry Chemical Physics, 2013, 15, 15802.	2.8	36
26	Construction of gold nanoparticle-ruthenium (II) tris(2,2′-bipyridine) self-assembled multistructures and their photocurrent responses. Thin Solid Films, 2001, 393, 273-277.	1.8	34
27	Fabrication of porphyrin–titanium oxide–fullerene assemblies on an ITO electrode and their photocurrent responses. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2000, 169, 137-141.	4.7	32
28	Particle-size effects on the photocurrent efficiency of nanostructured assemblies consisting of gold nanoparticles and a ruthenium complex–viologen linked thiol. Journal of Electroanalytical Chemistry, 2003, 550-551, 303-307.	3.8	28
29	Microstructures and Photovoltaic Properties of Polysilane-Based Solar Cells. Japanese Journal of Applied Physics, 2013, 52, 04CR07.	1.5	27
30	Gold nanoparticle–porphyrin self-assembled multistructures for photoelectric conversion. Thin Solid Films, 2003, 438-439, 70-74.	1.8	25
31	Enhanced Absorption and Emission in a Copper Phthalocyanine–Gold Nanoparticle System Assisted by Localized Surface Plasmon. Chemistry Letters, 2009, 38, 326-327.	1.3	23
32	Effects of spacer-chain length on the photoelectrochemical responses of monolayer assemblies with ruthenium tris(2,2′-bipyridine) - viologen linked disulfides. Thin Solid Films, 1999, 350, 223-227.	1.8	21
33	Step-by-Step Fabrication of Porphyrinâ^Fullerene Supramolecular Assemblies and Their Photoelectrochemical Properties. Journal of Physical Chemistry C, 2008, 112, 7015-7020.	3.1	20
34	Precise Control of Localized Surface Plasmon Wavelengths Is Needed for Effective Enhancement of Triplet–Triplet Annihilation-Based Upconversion Emission. ACS Photonics, 2018, 5, 5025-5037.	6.6	20
35	Solid-State Solar Cells Consisting of Polythiophene-Porphyrin Composite Films. Japanese Journal of Applied Physics, 2005, 44, 2799-2802.	1.5	19
36	Fabrication of Densely Packed Gold Nanoparticle Films and Their Fluorescence Enhancement Effect. Japanese Journal of Applied Physics, 2008, 47, 3063.	1.5	19

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#	Article	IF	CITATIONS
37	Shape Control of Fullerene Microparticles by Using Ethylenediamine. Chemistry Letters, 2008, 37, 932-933.	1.3	19
38	Fabrication and characterization of tetracyanoquinodimethane/phthalocyanine solar cells. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2012, 177, 877-881.	3.5	18
39	Fabrication and characterization of fullerene-based solar cells containing phthalocyanine and naphthalocyanine dimers. Synthetic Metals, 2013, 177, 48-51.	3.9	18
40	Microstructures, optical and photoelectric conversion properties of spherical silicon solar cells with anti-reflection SnO <sub>x</sub> :F thin films. Japanese Journal of Applied Physics, 2014, 53, 05FJ03.	1.5	18
41	Efficient Photocurrent Enhancement from Porphyrin Molecules on Plasmonic Copper Arrays: Beneficial Utilization of Copper Nanoanntenae on Plasmonic Photoelectric Conversion Systems. ACS Applied Materials & Interfaces, 2017, 9, 750-762.	8.0	18
42	Selective Formation and Structural Properties of Rhombic Dodecahedral [70]Fullerene Microparticles Formed by Reaction with Aliphatic Diamines. Langmuir, 2010, 26, 4274-4280.	3.5	17
43	Structural Characterization and Photocurrent Properties ofcis-di(thiocyanato)-bis(4,4'-dicarboxy-2,2'-bipyridine) Ruthenium(II) Monolayers on the Gold Surfaces. Japanese Journal of Applied Physics, 2005, 44, 2795-2798.	1.5	16
44	Photocurrent generation properties of electrochemically polymerized terthiophene-linked fullerene film. Synthetic Metals, 2009, 159, 965-968.	3.9	16
45	Photocurrent enhancement of porphyrin molecules over a wide-wavelength region based on combined use of silver nanoprisms with different aspect ratios. Journal of Materials Chemistry C, 2015, 3, 11439-11448.	5.5	16
46	Fabrication and Photoelectrochemical Properties of Polythiophene-Porphyrin Composite Films. Japanese Journal of Applied Physics, 2004, 43, 2306-2310.	1.5	15
47	Facile Fabrication of Morphology-Controlled Gold Nanoparticle Architectures by Electrolyte-Induced Agglomeration and Their Photoelectrochemical Applications. Langmuir, 2005, 21, 793-796.	3.5	15
48	Fabrication of a Novel Photoelectric Conversion Device Consisting of a Poly-3-dodecylthiophene Film and C60Fullerene–Ethylenediamine Nanoparticles. Chemistry Letters, 2007, 36, 934-935.	1.3	15
49	Open-shell singlet diradicaloid difluoreno[4,3-b:3′,4′-d]furan and its radical cation and dianion. Chemical Communications, 2020, 56, 5881-5884.	4.1	14
50	Novel Photoelectrochemical Cell Using a Self-Assembled Monolayer of a Ruthenium (II) Tris(2,2'-bipyridine) Thiol Derivative. Japanese Journal of Applied Physics, 2002, 41, 4737-4738.	1.5	13
51	Bi-directional photocurrent generation dependent on the wavelength of irradiation of a mixed monolayer assembly. Photochemical and Photobiological Sciences, 2004, 3, 26.	2.9	13
52	Characterization and Evaluation of Role of Porphyrin Moiety inmeso-Tetrathienylporphyrin–Polythiophene Composite Film. Japanese Journal of Applied Physics, 2007, 46, 2632-2635.	1.5	13
53	Structural Characterization and Photoelectrochemical Properties of Gold Nanoparticle Multistructures Prepared by Layer-by-Layer Deposition. Japanese Journal of Applied Physics, 2009, 48, 04C132.	1.5	13
54	Facile Fabrication and Photocurrent Generation Properties of Electrochemically Polymerized Fullerene–Poly(ethylene dioxythiophene) Composite Films. Japanese Journal of Applied Physics, 2009, 48. 04C172.	1.5	13

Τςυγοςηι Ακιγαμα

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55	Preparation and characterization of porphyrin–polythiophene stacked films as prepared by electrochemical method under stirring condition. Thin Solid Films, 2008, 516, 2502-2506.	1.8	12
56	Preparation and Photoelectrochemical Properties of a Self-Assembled Monolayer of a Ruthenium Tris(2,2′-bipyridine)-viologen 1:2 Linked Compound. Chemistry Letters, 2000, 29, 668-669.	1.3	11
57	A Z-scheme type photoelectrochemical cell consisting of porphyrin-containing polymer and dye-sensitized TiO2electrodes. Photochemical and Photobiological Sciences, 2010, 9, 1085-1087.	2.9	11
58	Fabrication and characterization of PCBM:P3HT:silicon phthalocyanine bulk heterojunction solar cells with inverted structures. Japanese Journal of Applied Physics, 2014, 53, 05FJ08.	1.5	11
59	Facile Fabrication and Photovoltaic Application of [60]Fullerene Assembly Films Formed by Reaction between Fullerene and Amines. Bulletin of the Chemical Society of Japan, 2014, 87, 1335-1342.	3.2	11
60	Fabrication and photoelectrochemical properties of electron donor–acceptor assemblies via titanium oxide interlayers. Thin Solid Films, 2003, 438-439, 230-234.	1.8	10
61	Fabrication of a Photoelectrochemical Cell Using a Self-Assembled Monolayer of Tris(2,2'-bipyrisine)ruthenium(II)-Viologen Linked Thiol on Multistructured Gold Nanoparticles. Japanese Journal of Applied Physics, 2004, 43, 2372-2375.	1.5	10
62	Facile Solubilization and Photovoltaic Application of C60 Fullerene–Ethylenediamine Adduct. Chemistry Letters, 2013, 42, 177-179.	1.3	10
63	C <sub>60</sub> –ethylenediamine adduct thin film as a buffer layer for inverted-type organic solar cells. RSC Advances, 2014, 4, 34950.	3.6	10
64	A double-driven photoelectrochemical cell. Synthetic Metals, 2003, 139, 511-514.	3.9	9
65	Facile Fabrication and Photolectrochemical Properties of Porphyrin–Fullerene Assemblies by Self-Assembly and Surface Sol–Gel Processes. Japanese Journal of Applied Physics, 2006, 45, 3758-3761.	1.5	9
66	Photocurrent enhancement tuned with plasmonic resonance in self-assembled monolayers fabricated on regularly arrayed gold nanostructures. Photochemical and Photobiological Sciences, 2012, 11, 318-322.	2.9	9
67	Facile Fabrication of Gold Nanoparticle–Titanium Oxide Alternate Assemblies by Surface Sol–Gel Process. Japanese Journal of Applied Physics, 2007, 46, 2490-2492.	1.5	8
68	Effects of Film Thickness on the Photocurrent Generation from Polythiophene–Fullerene Thin Films Containing Silver Nanoparticles. Japanese Journal of Applied Physics, 2012, 51, 02BK04.	1.5	8
69	Fabrication of dense two-dimensional assemblies over vast areas comprising gold(core)—silver(shell) nanoparticles and their surface-enhanced Raman scattering properties. Photochemical and Photobiological Sciences, 2013, 13, 82-91.	2.9	8
70	Effect of gold nanoparticle in holeâ€ŧransport layer on inverted organic thinâ€film solar cell performance. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 1645-1650.	1.8	8
71	Extraordinary enhancement of porphyrin photocurrent utilizing plasmonic silver arrays. Nanoscale, 2016, 8, 15467-15472.	5.6	8
72	Time-dependent non-linear size change of C60-ethylenediamine adduct particles in formation process. Journal of Nanoparticle Research, 2018, 20, 1.	1.9	8

Τѕичоѕні Акічама

#	Article	IF	CITATIONS
73	Silver-Nanoparticle-Assisted Photocurrent Generation in Polythiophene–Fullerene Thin Films. Japanese Journal of Applied Physics, 2011, 50, 04DK22.	1.5	7
74	Facile Fabrication and Raman Scattering Enhancement Properties of Mixed Gold and Silver Nanoparticle Layers. E-Journal of Surface Science and Nanotechnology, 2012, 10, 157-160.	0.4	7
75	Mixing Effect of Gold and Silver Nanoparticles on Enhancement in Performance of Organic Thin-Film Solar Cells. Japanese Journal of Applied Physics, 2013, 52, 122301.	1.5	7
76	Photochemical half-cells using mixture films of fullerene-ethylenediamine adduct microparticles and polythiophene. Journal of Physics: Conference Series, 2013, 433, 012010.	0.4	7
77	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. International Journal of Energy Research, 2014, 38, 1541-1550.	4.5	7
78	Effects of Hole Transport Layer on Photoelectrochemical Responses from Polythiophene–Porphyrin Composite Polymer Electrode. Applied Physics Express, 2010, 3, 122301.	2.4	6
79	Fabrication of C <sub>60</sub> assembly films via an fullerene-amine addition reaction by using stepwise immersion. Journal of Physics: Conference Series, 2013, 433, 012007.	0.4	6
80	Formation of Thin Films of Densely Packed [60]Fullerene–Diaminoethane Adduct Microparticles at a Liquid/Liquid Interface and Their Photoelectrochemical Applications. Chemistry Letters, 2015, 44, 489-491.	1.3	6
81	Incorporation Effect of Silver Nanoparticles on Inverted Type Bulk-Heterojunction Organic Solar Cells. Japanese Journal of Applied Physics, 2013, 52, 04CR13.	1.5	5
82	Low-temperature synthesis of titanium oxide/gold nanoparticle composite powders using a combination of the sol–gel process and ultraviolet light irradiation. Journal of Sol-Gel Science and Technology, 2016, 78, 692-697.	2.4	5
83	Cathode buffer composed of fullerene–ethylenediamine adduct for an organic solar cell. Japanese Journal of Applied Physics, 2017, 56, 021601.	1.5	5
84	Doping effects of transition metal elements to titanium dioxide for perovskite solar cells. AIP Conference Proceedings, 2017, , .	0.4	5
85	Fabrication and photocatalytic behavior of titanium oxide–gold nanoparticles composite ultrathin films prepared using surface sol–gel process. Journal of Sol-Gel Science and Technology, 2020, 93, 563-569.	2.4	5
86	Enhanced Photocurrent Generation in Selfâ€Assembled Monolayers Formed at Plasmonic Gold Nanostructures. Macromolecular Symposia, 2008, 270, 171-176.	0.7	4
87	Fabrication and characterization of copper oxides/fullerene solar cells prepared by an electrodeposition method. Journal of the Ceramic Society of Japan, 2011, 119, 402-404.	1.1	4
88	Effects of capping layers on the photoelectrochemical property of silver nanoparticle-modified indium–tin-oxide electrode. Journal of Photochemistry and Photobiology A: Chemistry, 2011, 221, 239-243.	3.9	4
89	Effects of Au nanoparticle addition to hole transfer layer in organic solar cells based on copper naphthalocyanine and fullerene. Progress in Natural Science: Materials International, 2014, 24, 179-183.	4.4	4
90	Fabrication and characterization of organic solar cells using titanylphthalocyanine as hole transport layer. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 2861-2864.	1.8	4

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91	Fabrication and Photocurrent Generation Properties of Insoluble Hierarchical Polythiophene Thin Films Prepared by Sequential Electrochemical Polymerization. Bulletin of the Chemical Society of Japan, 2016, 89, 700-704.	3.2	4
92	Morphological change of crystalline polymer films by annealing: substrate―and heating/coolingâ€rateâ€dependent surface roughness. Surface and Interface Analysis, 2017, 49, 577-583.	1.8	4
93	Effect of gold nanoparticles in titanium oxide layer on the photovoltaic performance of inverted-type organic thin-film solar cells. Molecular Crystals and Liquid Crystals, 2017, 653, 50-56.	0.9	3
94	Insertion effect of spin-coated films of C60-ethylenediamine adduct on organic thin-film solar cells. AIP Conference Proceedings, 2018, , .	0.4	3
95	Fabrication and surface-enhanced Raman scattering properties of two-dimensional gold and silver nanoparticle mixed assemblies by liquid–liquid interfacial precipitation method. Applied Physics Express, 2020, 13, 055001.	2.4	3
96	An Influence of Monomeric Porphyrin Structure on the Electropolymerized Photoactive Electrode for Polymer Solar Cells. Molecular Crystals and Liquid Crystals, 2011, 538, 10-14.	0.9	2
97	Organic Solar Cells Based on Electrodeposited Polyaniline Films. Japanese Journal of Applied Physics, 2012, 51, 04DK10.	1.5	2
98	Preparation and Photovoltaic Application of Fullerene–Porphyrin Composite Micropowder. Chemistry Letters, 2013, 42, 694-696.	1.3	2
99	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.	1.5	2
100	Dye fluorescence enhancement by plasmonic nanostructured gold–titania film composites obtained by the combination of electrodeposition and surface sol-gel process. Journal of Sol-Gel Science and Technology, 2022, 104, 666-672.	2.4	2
101	Characterization of Copper Phthalocyanine Nanoparticles Formed by Laser Ablation in Poor Solvents. E-Journal of Surface Science and Nanotechnology, 2008, 6, 312-316.	0.4	1
102	Electrochemical Modulation of the Optical Property of Polythiophene-Gold Nanorod Composite Films. Molecular Crystals and Liquid Crystals, 2011, 539, 1/[341]-4/[344].	0.9	1
103	Tuning Optical Properties of Two-Dimensional Ordered Arrays of Silica/Gold and Silver Core/Shell Structured Nanoparticles in Near-Infrared Region. Japanese Journal of Applied Physics, 2012, 51, 04DH04.	1.5	1
104	Retardation of sol–gel titanium oxide with imprinted grating structure. Optical Engineering, 2017, 56, 017108.	1.0	1
105	Fabrication and electrochemical properties of insoluble fullerene-diamine adduct thin-films as buffer layer by alternate immersion process. AIP Conference Proceedings, 2017, , .	0.4	1
106	One-pot synthesis of visible-light-responsive titanium oxide photocatalyst with embedded silver nanoparticles. Journal of Sol-Gel Science and Technology, 2021, 98, 281-287.	2.4	1
107	Preparation of silver-nanoparticle-loaded C60-ethylenediamine adduct microparticles and their application to photoelectric conversion. Applied Physics Express, 2021, 14, 067003.	2.4	1
108	Fabrication and surface-enhanced Raman scattering properties of thin-film assemblies of classified silver nanoparticles. Japanese Journal of Applied Physics, 2021, 60, 027002.	1.5	1

#	Article	IF	CITATIONS
109	Fabrication and Photocurrent Generation of Multilayer Assemblies Consisting of Silver-nanoparticles, Polydiacetylene, and Polyions. Japanese Journal of Applied Physics, 2011, 50, 04DH15.	1.5	0
110	Selective implantation of gold nanoparticles onto the surface on one side of a self-standing polymer film. RSC Advances, 2014, 4, 62375-62379.	3.6	0
111	Effect of Gold and Silver Nanoparticle in Poly(3,4-Ethylenedioxythiophene)-Poly(Styrene Sulfonate) layer on Inverted-Type Organic Thin-Film Solar Cells. Transactions of the Materials Research Society of Japan, 2015, 40, 331-334.	0.2	0
112	Fabrication and photovoltaic properties of an invert-type organic thin-film solar cells incorporation of phosphorescent material into electron transport layer. AIP Conference Proceedings, 2019, , .	0.4	0