

Hideo Tokuhisa

List of Publications by Year in descending order

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63
papers

1,484
citations

430874

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315739

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docs citations

67
times ranked

1928
citing authors

#	ARTICLE	IF	CITATIONS
1	Fluorescence Color Modulation by Intramolecular and Intermolecular π - π Interactions in a Helical Zinc(II) Complex. <i>Chemistry of Materials</i> , 2005, 17, 50-56.	6.7	243
2	Preparation and Characterization of Dendrimer Monolayers and Dendrimer-Alkanethiol Mixed Monolayers Adsorbed to Gold. <i>Journal of the American Chemical Society</i> , 1998, 120, 4492-4501.	13.7	227
3	Nanopore DNA sensors based on dendrimer-modified nanopipettes. <i>Chemical Communications</i> , 2009, , 4877.	4.1	105
4	Interactions between Organized, Surface-Confined Monolayers and Vapor-Phase Probe Molecules. 12. Two New Methods for Surface-Immobilization and Functionalization of Chemically Sensitive Dendrimer Surfaces. <i>Langmuir</i> , 1997, 13, 5608-5612.	3.5	85
5	Molecule-Sized Gates Based on Surface-Confined Dendrimers. <i>Angewandte Chemie International Edition in English</i> , 1997, 36, 2596-2598.	4.4	80
6	Highly Stable Au Nanoparticles with Tunable Spacing and Their Potential Application in Surface Plasmon Resonance Biosensors. <i>Advanced Functional Materials</i> , 2010, 20, 78-86.	14.9	67
7	A new synthetic method for rotaxanes via tandem Claisen rearrangement, diesterification, and aminolysis. <i>Tetrahedron Letters</i> , 2002, 43, 5747-5750.	1.4	51
8	Novel Low-Temperature-Sintering Type Cu-Alloy Pastes for Silicon Solar Cells. <i>Energy Procedia</i> , 2012, 21, 66-74.	1.8	44
9	Odd-even effect and metal induced structural convergence in self-assembled monolayers of bipyridine derivatives. <i>Chemical Communications</i> , 2007, , 1343-1345.	4.1	41
10	Solder Joint Failure Modes in the Conventional Crystalline Si Module. <i>Energy Procedia</i> , 2014, 55, 464-468.	1.8	31
11	Two-Dimensional Structure Control by Molecular Width Variation with Metal Coordination. <i>Langmuir</i> , 2006, 22, 6910-6914.	3.5	29
12	A New Synthetic Route to Benzoxazole Polymer via Tandem Claisen Rearrangement. <i>Macromolecules</i> , 2001, 34, 6545-6547.	4.8	26
13	Interaction Force of Chitin-Binding Domains onto Chitin Surface. <i>Biomacromolecules</i> , 2008, 9, 2126-2131.	5.4	26
14	Efficient Biosensor Interfaces Based on Space-Controlled Self-Assembled Monolayers. <i>Langmuir</i> , 2009, 25, 1633-1637.	3.5	26
15	Synthesis of polyanionic glycopolymers for the facile assembly of glycosyl arrays. <i>Tetrahedron</i> , 2005, 61, 5895-5905.	1.9	24
16	Innovative Platform for Transmission Localized Surface Plasmon Transducers and Its Application in Detecting Heavy Metal Pd(II). <i>Analytical Chemistry</i> , 2009, 81, 7703-7712.	6.5	23
17	Photoresponsive Ion-Conducting Behavior of Polysiloxanes Carrying a Crowned Azobenzene Moiety at the Side Chain. <i>Macromolecules</i> , 1994, 27, 1842-1846.	4.8	22
18	Comparison of the bond lengths for the lanthanide complexes of tripodal heptadentate ligands. <i>Journal of Alloys and Compounds</i> , 2004, 374, 307-310.	5.5	20

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19	Photoinduced switching of ionic conductivity by metal ion complexes of vinyl copolymers carrying crowned azobenzene and biphenyl moieties at the side chain. <i>Journal of Materials Chemistry</i> , 1998, 8, 889-891.	6.7	19
20	Transformation of two-dimensional structures of noncyclic isobutenyl diamide compounds by tandem Claisen rearrangement. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2010, 356, 58-62.	4.7	16
21	Synthesis of chiral crownphanes via tandem Claisen rearrangement. <i>Tetrahedron Letters</i> , 1999, 40, 8007-8010.	1.4	15
22	Stepwise synthesis of crownphanes having either one or two hydroxy groups via Claisen rearrangement. <i>Tetrahedron Letters</i> , 2000, 41, 9261-9265.	1.4	15
23	Tunable aggregation of Au nanoparticles in Au/SiO ₂ composite film and its photo-absorbance. <i>Applied Physics A: Materials Science and Processing</i> , 2008, 92, 263-266.	2.3	15
24	Fabrication of micro-textured surfaces for a high hydrophobicity by evaporative patterning using screen mesh templates. <i>Applied Surface Science</i> , 2017, 400, 64-70.	6.1	15
25	Synthesis of crowned azobenzene derivatives and their photoresponsive ion-conducting behavior. <i>Chemistry of Materials</i> , 1993, 5, 989-993.	6.7	14
26	Title is missing!. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2001, 39, 347-352.	1.6	14
27	Soluble 1D Coordination Polymers Based on Dendron-Functionalized Bipyridine Ligand for Linking between Immobilized Molecules on Substrates. <i>Langmuir</i> , 2005, 21, 9728-9732.	3.5	14
28	Surface Potential Switching by Metal Ion Complexation/Decomplexation Using Bipyridinethiolate Monolayers on Gold. <i>Journal of Physical Chemistry B</i> , 2006, 110, 9195-9203.	2.6	14
29	Self-assembly of bipyridine derivatives at solid/liquid interface: Effects of the number of peripheral alkyl chains and metal coordination on the two-dimensional structures. <i>Surface Science</i> , 2007, 601, 2520-2524.	1.9	14
30	Synthesis of Vinyl Polymers Incorporating Different Crowned Azobenzene Moieties and Their Application to Photoresponsive Ion-Conducting System. <i>Bulletin of the Chemical Society of Japan</i> , 1996, 69, 2123-2130.	3.2	12
31	A New Method to Fabricate Single-Molecule Nanoarrays Using Dendrimer-Based Templates. <i>Advanced Materials</i> , 2003, 15, 1534-1538.	21.0	11
32	Au/SiO ₂ nanocomposite film substrates with a high number density of Au nanoparticles for molecular conductance measurement. <i>Nanotechnology</i> , 2007, 18, 205501.	2.6	11
33	Ionic-conductivity switching of vinyl malachite green leuconitrile copolymers based on photoinduced carrier generation. <i>Journal of Polymer Science Part A</i> , 1993, 31, 2809-2813.	2.3	10
34	Ion-conducting behaviour and photoinduced ionic-conductivity switching of composite films containing crowned cholesteric liquid crystals. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1995, 91, 1237.	1.7	10
35	Design of Photochromic Crown Compounds and Their Applications to Photoswttable Ion-Conducting Materials. <i>Molecular Crystals and Liquid Crystals</i> , 1994, 246, 173-176.	0.3	9
36	Co ₂ (CO) ₈ -catalyzed reaction of aromatic aldehydes with hydrosilanes under carbon monoxide as 1 atm: Incorporation of CO into the carbonyl carbon atom of aldehydes. <i>Journal of Organometallic Chemistry</i> , 1995, 499, 193-197.	1.8	9

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37	Conductance Changes of Conjugated 2,2'-Bipyridine Dithiol Derivatives Bound between Nanogap Electrodes by Complexation with Pd(II). Japanese Journal of Applied Physics, 2008, 47, 7369-7371.	1.5	8
38	STM-based molecular detection of "catch-and-release" of protons for bipyridine bound to phenylene-ethynylene thiol. Chemical Communications, 2004, , 1626-1627.	4.1	7
39	Pressure Sensor Array Fabricated with Polyamino Acid. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2013, 26, 411-414.	0.3	7
40	Effect of Microwave Annealing on Oxide-Semiconductor-Precursor Ink. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2014, 27, 339-342.	0.3	7
41	Tandem Claisen Rearrangement: Synthesis of Novel Functional Phenol Derivatives.. Yuki Gosei Kagaku Kyokaiishi/Journal of Synthetic Organic Chemistry, 2003, 61, 111-122.	0.1	6
42	Pyrolyzed Carbon Film Diodes. ACS Applied Materials & Interfaces, 2013, 5, 10673-10681.	8.0	5
43	Characterization and protonation behavior of bipyridine thiol self-assembled monolayer on Au(111) studied using X-ray photoelectron spectroscopy and scanning tunneling microscopy. Surface Science, 2007, 601, 68-75.	1.9	4
44	Synthesis of macrocyclic bis(phenylbenzoxazole) derivatives via tandem claisen rearrangement and their fluorescence behavior. Journal of Heterocyclic Chemistry, 2001, 38, 1353-1360.	2.6	3
45	Scanning Tunneling Microscopy Study of Imaging Change Induced by Electric Field Change of Bipyridine Derivatives in Self-Assembled Monolayers. Japanese Journal of Applied Physics, 2004, 43, 4561-4565.	1.5	3
46	Scanning Tunneling Microscopy Observations of Proton and Metal Cation Catching Behavior of Embedded Bipyridine Thiols in Alkanethiol Self-Assembled Monolayers on Au(111). Japanese Journal of Applied Physics, 2006, 45, 6028-6032.	1.5	3
47	New interconnection alloy metal for high bonding strength nano composite particles synthesized by nanomized method. , 2014, , .		3
48	New Cu paste with high bonding strength—Nano composite alloy particles synthesized by nanomized method. , 2014, , .		3
49	Reliability of a printed Cu busbar electrode on a conventional silicon solar cell. Japanese Journal of Applied Physics, 2015, 54, 08KD22.	1.5	3
50	Novel polyureas having isobutenyl bis(aryl ether) moieties in the polymer main chain: Synthesis, tandem Claisen rearrangement, and thermal patterning on polymer film surface using microthermal analyzer. Journal of Applied Polymer Science, 2002, 84, 2287-2293.	2.6	2
51	Immobilization of i-conjugated molecules on Au using dendrimer-based templates. Current Applied Physics, 2006, 6, 723-727.	2.4	2
52	Single-Molecule Behaviors of Conjugated 2,2'-Bipyridine Derivative Inserted in Matrix Layer Using Dendrimer-Based Template. Japanese Journal of Applied Physics, 2006, 45, L332-L334.	1.5	2
53	Effect of amide bond in gate dielectric polymers on memory performance of organic field-effect transistors. Japanese Journal of Applied Physics, 2014, 53, 05HB13.	1.5	2
54	Effect of Dielectric Behavior of Gate Dielectric Polymers on Memory Characteristics of Organic Field-effect Transistors. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2014, 27, 333-337.	0.3	2

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55	Cation-complexation-induced aggregation and specific ion conduction of lipophilic crowned azobenzenes. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 1992, 13, 273-285.	1.6	1
56	SINGLE MOLECULE IMMOBILIZATION OF π -CONJUGATED MOLECULES ON Au USING DENDRIMER-BASED TEMPLATES. <i>International Journal of Nanoscience</i> , 2005, 04, 467-473.	0.7	1
57	Two-dimensional structures of pyrimido[5,4-d]pyrimidine derivatives at solid/liquid interface. <i>Applied Surface Science</i> , 2008, 254, 7576-7580.	6.1	1
58	Screen printed finger electrode with high aspect ratio by single printing for crystal Si solar cell using novel screen mask. , 2012, , .		1
59	Co ₂ (CO) ₈ -Catalyzed Reactions of Acetals or Lactones with Hydrosilanes and Carbon Monoxide. A New Access to the Preparation of 1,2-Diol Derivatives through Siloxymethylation. <i>Bulletin of the Chemical Society of Japan</i> , 2021, 94, 81-90.	3.2	1
60	Tandem Claisen Rearrangement: Synthesis of Novel Functional Phenol Derivatives. <i>ChemInform</i> , 2003, 34, no.	0.0	0
61	CONSTRUCTION OF MOLECULAR SENSORS FOR PROTONS USING π -CONJUGATED MOLECULES. <i>International Journal of Nanoscience</i> , 2005, 04, 475-481.	0.7	0
62	Preferable opening area of screen mesh to print fine finger electrode with less-bumpy surface. , 2012, , .		0
63	Fabrication of air-stable, transparent Cu grid electrodes by etching through a PVA-based protecting layer patterned using a screen mesh. <i>RSC Advances</i> , 2018, 8, 14864-14869.	3.6	0