Takeshi Shimomura

List of Publications by Year
in descending order

70 papers	3,018 citations	304743 22 h-index	155660 55 g-index
70 all docs	70 docs citations	70 times ranked	3619 citing authors

#	Article	IF	Citations
1	Fabrication, characterization, and thermoelectric properties of soft polyurethane foam loaded with semiconducting poly(3â€hexylthiophene) nanofibers. Journal of Applied Polymer Science, 2022, 139, .	2.6	7
2	Cover Image, Volume 139, Issue 23. Journal of Applied Polymer Science, 2022, 139, .	2.6	0
3	Thermoelectric Properties of Poly(3-hexylthiophene) Nanofiber Aerogels with a Giant Seebeck Coefficient. ACS Applied Polymer Materials, 2021, 3, 455-463.	4.4	22
4	Ionic transport and mechanical properties of slide-ring gel swollen with Mg-ion electrolytes. Ionics, 2020, 26, 255-261.	2.4	4
5	Electrical Double Percolation of Polybutadiene/Polyethylene Glycol Blends Loaded with Conducting Polymer Nanofibers. Polymers, 2020, 12, 2658.	4.5	6
6	Semiconducting Properties of the Hybrid Film of Elastic Poly(styrene-b-butadiene-b-styrene) Block Copolymer and Semiconducting Poly(3-hexylthiophene) Nanofibers. Polymers, 2020, 12, 2118.	4.5	2
7	Thermoelectric properties of PEDOT:PSS aerogel secondary-doped in supercritical CO2 atmosphere with low thermal conductivity. Polymer, 2020, 206, 122912.	3.8	16
8	Simulation Study of the Effect of the Side-Chain Structure on the Initial Nucleation Process of Polythiophene Derivatives. Journal of Physical Chemistry B, 2017, 121, 1108-1117.	2.6	10
9	Ion-Conductive and Elastic Slide-Ring Gel Li Electrolytes Swollen with Ionic Liquid. Electrochimica Acta, 2017, 229, 166-172.	5.2	28
10	Cyclic Emitter with Tetraphenylsilane and Tetraphenylethene Units Exhibiting Tunable Color Emissions. Chemistry Letters, 2017, 46, 1546-1549.	1.3	1
11	Synthesis and properties of a new AIE macrocyclic emitter with triarylamine backbone. Tetrahedron Letters, 2017, 58, 3579-3582.	1.4	6
12	Thermoelectric Properties of Poly(3-Hexylthiophene) Nanofiber Mat with a Large Void Fraction. Materials, 2017, 10, 468.	2.9	24
13	Temperature Characteristic of pn Junction Diode Using Composite Film of Conductive Polymer Nanofibers. Kobunshi Ronbunshu, 2017, 74, 557-564.	0.2	0
14	Crystallization of Poly(3-hexylthiophene) Nanofiber in a Narrow Groove. Polymers, 2016, 8, 231.	4.5	4
15	Synthesis and characterization of poly(3-hexylthiophene)- block -poly(dimethylsiloxane) for photovoltaic application. Polymer, 2016, 92, 125-132.	3.8	12
16	Molecular dynamics simulation on the nanofiber formation of conducting polymers in solutions. Molecular Crystals and Liquid Crystals, 2016, 629, 248-253.	0.9	2
17	Semiconducting properties of p- and n-type organic nanofiber/poly(methyl methacrylate) composite films for film rectifier. Synthetic Metals, 2016, 213, 1-6.	3.9	7
18	Ionic Conductivity and Mechanical Properties of Slide-Ring Gel Swollen with Electrolyte Solution Including Lithium Ions. Electrochimica Acta, 2015, 169, 433-439.	5.2	11

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19	Ionic conduction of slide-ring gel swollen with ionic liquids. Polymer, 2013, 54, 1490-1496.	3.8	24
20	Insulator surface modification of field-effect transistor using isolated poly(3-hexylthiophene) nanofiber. Synthetic Metals, 2013, 175, 200-204.	3.9	4
21	Thin, transparent conductive films fabricated from conducting polymer nanofibers. Polymer Journal, 2013, 45, 819-823.	2.7	17
22	Simulation Study of the Initial Crystallization Processes of Poly(3-hexylthiophene) in Solution: Ordering Dynamics of Main Chains and Side Chains. Journal of Physical Chemistry B, 2013, 117, 6282-6289.	2.6	20
23	Transparent Conductive Films Fabricated from Polythiophene Nanofibers Composited with Conventional Polymers. Polymers, 2013, 5, 1325-1338.	4.5	14
24	Convenient Fabrication of Fine Electrodes for Electric Measurement of Nanofibers by Nanoimprint Lithography. Japanese Journal of Applied Physics, 2012, 51, 030204.	1.5	0
25	Microscopic conduction pathways of poly(3-hexylthiophene) nanofibers embedded in polymer film. Polymer Journal, 2012, 44, 371-374.	2.7	9
26	Convenient Fabrication of Fine Electrodes for Electric Measurement of Nanofibers by Nanoimprint Lithography. Japanese Journal of Applied Physics, 2012, 51, 030204.	1.5	1
27	Annealing effect on performance and morphology of photovoltaic devices based on poly(3â€hexylthiophene)â€‹<i>b</i>â€poly(ethylene oxide). Journal of Polymer Science Part A, 2011, 49, 2645-2652.	2.3	43
28	Relationship between structural coherence and intrinsic carrier transport in an isolated poly(3-hexylthiophene) nanofiber. Physical Review B, 2011, 83, .	3.2	44
29	Synthesis of Diblock Copolymer Consisting of Poly(4-butyltriphenylamine) and Morphological Control in Photovoltaic Application. Polymers, 2011, 3, 1051-1064.	4.5	14
30	Synthesis and Characterization of Poly(3-hexylthiophene)-b-Polystyrene for Photovoltaic Application. Polymers, 2011, 3, 558-570.	4.5	36
31	Factors Affecting Voltammetric Responses for Redox-active Solid Layers of Li4Ti5O12 Coated on Electrodes. Electrochemistry, 2010, 78, 375-379.	1.4	4
32	Charge transporting block copolymer for morphological control in light emitting device based on polymer blends. Synthetic Metals, 2010, 160, 1679-1682.	3.9	15
33	Field-Effect Carrier Transport in Poly(3-alkylthiophene) Nanofiber Networks and Isolated Nanofibers. Macromolecules, 2010, 43, 7891-7894.	4.8	78
34	Conductivity Measurement of Single Nanowire Obtained by Dehydrofluorination of Nanofibrils of Poly(vinylidene difluoride). Japanese Journal of Applied Physics, 2009, 48, 030213.	1.5	0
35	Supramolecular structure of columnar liquid crystalline Ï€-conjugated oligothiophenes with highly polarized photoluminescence properties. Journal of Applied Physics, 2009, 105, .	2.5	4
36	Adsorption Behavior of Coumarin onto a Concaved Substrate in Water under an Electric Field. Journal of the Electrochemical Society, 2009, 156, D1.	2.9	3

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37	<i><i>Ï€</i></i>â€Conjugated Oligothiopheneâ€Based Polycatenar Liquid Crystals: Selfâ€Organization and Photoconductive, Luminescent, and Redox Properties. Advanced Functional Materials, 2009, 19, 411-419.	14.9	212
38	Photoinduced electron transfer in nanostructured assemblies of layered semiconducting oxide and methylviologen: Effect of the location of acceptor molecules. Microporous and Mesoporous Materials, 2009, 123, 280-288.	4.4	25
39	Preparation of diblock copolymer based on poly(4-n-butyltriphenylamine) via palladium coupling polymerization. Polymer, 2009, 50, 95-101.	3.8	24
40	Photoluminescent Liquid Crystals Based on Trithienylphosphine Oxides. Chemistry Letters, 2009, 38, 800-801.	1.3	14
41	Effective Production of Poly(3-alkylthiophene) Nanofibers by means of Whisker Method using Anisole Solvent: Structural, Optical, and Electrical Properties. Macromolecules, 2008, 41, 8000-8010.	4.8	255
42	Nanofiber preparation by whisker method using solvent-soluble conducting polymers. Thin Solid Films, 2008, 516, 2478-2486.	1.8	54
43	Synthesis of a Molecular Tube in Dimethyl Sulfoxide and Its Inclusion Complexation Behavior with Poly(ethylene oxide-<i>ran</i>-propylene oxide). Macromolecules, 2008, 41, 5385-5392.	4.8	11
44	Chemical Adsorption of Poly(3-alkylthiophene) on Au Using Self-Assembling Technique. Japanese Journal of Applied Physics, 2007, 46, L1126-L1128.	1.5	4
45	Dielectric relaxation of liquid-crystalline polyrotaxane. Europhysics Letters, 2007, 79, 66004.	2.0	17
46	Electrical Conductivity Measurement of DNA Double-Stranded Chains by â€œOne-by-Oneâ€•Cutting Method Using Atomic Force Microscopy. Journal of the Physical Society of Japan, 2006, 75, 074803.	1.6	9
47	Electroactive Supramolecular Self-Assembled Fibers Comprised of Doped Tetrathiafulvalene-Based Gelators. Journal of the American Chemical Society, 2005, 127, 14769-14775.	13.7	234
48	Conductivity measurements of individual poly(3,4-ethylenedioxythiophene)/poly(styrenesulfonate) nanowires on nanoelectrodes using manipulation with an atomic force microscope. Applied Physics Letters, 2005, 86, 233103.	3.3	58
49	Conductivity measurements of PEDOT nanowires on nanoelectrodes. Synthetic Metals, 2005, 152, 497-500.	3.9	26
50	Conductivity measurement of insulated molecular wire formed by molecular nanotube and polyaniline. Synthetic Metals, 2005, 153, 497-500.	3.9	29
51	Immobilization of molecular tubes on self-assembled monolayers of Î²-cyclodextrin and dodecanethiol inclusion complexes. Applied Physics Letters, 2004, 85, 3875-3877.	3.3	9
52	Self-Assembled Hexa-peri-hexabenzocoronene Graphitic Nanotube. Science, 2004, 304, 1481-1483.	12.6	985
53	Fabrication of Four-Probe Fine Electrodes Using Scanning-Probe Nanofabrication. Japanese Journal of Applied Physics, 2003, 42, 4764-4766.	1.5	10
54	HCl-doping of insulated molecular wire formed by emeraldine base polyaniline and molecular nanotube. Synthetic Metals, 2003, 135-136, 777-778.	3.9	24

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55	Nanostructures formed by combination of nanotube and polymer chain. Macromolecular Symposia, 2003, 201, 103-110.	0.7	9
56	Structure and Function of Polymeric Inclusion Complex of Molecular Nanotubes and Polymer Chains. , 2003, , 65-76.		0
57	BLACK HOLE ENTROPY IN THE MEMBRANE PARADIGM. International Journal of Modern Physics D, 2002, 11, 789-804.	2.1	3
58	Fabrication Process of Fine Electrodes Using Shadow Mask Evaporation and Tip-Induced Local Oxidation. Japanese Journal of Applied Physics, 2002, 41, 4883-4886.	1.5	4
59	Atomic force microscopy observation of insulated molecular wire formed by conducting polymer and molecular nanotube. Journal of Chemical Physics, 2002, 116, 1753-1756.	3.0	114
60	Frequency domain electric birefringence study of water-in-oil microemulsion droplets. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2002, 209, 281-287.	4.7	7
61	Title is missing!. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2002, 44, 275-278.	1.6	17
62	Temperature dependence of inclusion-dissociation behavior between molecular nanotubes and linear polymers. Journal of Chemical Physics, 2001, 114, 1.	3.0	50
63	Manipulation of Insulated Molecular Wire with Atomic Force Microscope. Japanese Journal of Applied Physics, 2001, 40, L1327-L1329.	1.5	24
64	Insulation effect of an inclusion complex formed by polyaniline and ?-cyclodextrin in solution. Polymers for Advanced Technologies, 2000, 11, 837-839.	3.2	47
65	Inclusion behavior between molecular nanotubes and linear polymer chains in aqueous solutions. Journal of Chemical Physics, 2000, 112, 4321-4325.	3.0	32
66	Relation between intra-chain conduction and main-chain conformation of conducting polymers in solutions as studied by electric birefringence spectroscopy. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1999, 148, 155-162.	4.7	4
67	Inclusion Complex Formation of Cyclodextrin and Polyaniline. Langmuir, 1999, 15, 910-913.	3.5	177
68	Two-dimensional spectroscopy of electric birefringence relaxation in frequency domain: Measurement method for second-order nonlinear after-effect function. Journal of Chemical Physics, 1999, 110, 4101-4108.	3.0	19
69	Frequency-domain electric birefringence spectra of conducting polymers. Synthetic Metals, 1995, 69, 689-690.	3.9	2
70	Intrachain conduction and main-chain conformation of conducting polymers as studied by frequency-domain electric birefringence spectroscopy. Physical Review Letters, 1994, 72, 2073-2076.	7.8	17