

Takeshi Shimomura

List of Publications by Year in descending order

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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	Self-Assembled Hexa-peri-hexabenzocoronene Graphitic Nanotube. <i>Science</i> , 2004, 304, 1481-1483.	12.6	985
2	Effective Production of Poly(3-alkylthiophene) Nanofibers by means of Whisker Method using Anisole Solvent: Structural, Optical, and Electrical Properties. <i>Macromolecules</i> , 2008, 41, 8000-8010.	4.8	255
3	Electroactive Supramolecular Self-Assembled Fibers Comprised of Doped Tetrathiafulvalene-Based Gelators. <i>Journal of the American Chemical Society</i> , 2005, 127, 14769-14775.	13.7	234
4	Conjugated Oligothiophene-Based Polycatenar Liquid Crystals: Self-Organization and Photoconductive, Luminescent, and Redox Properties. <i>Advanced Functional Materials</i> , 2009, 19, 411-419.	14.9	212
5	Inclusion Complex Formation of Cyclodextrin and Polyaniline. <i>Langmuir</i> , 1999, 15, 910-913.	3.5	177
6	Atomic force microscopy observation of insulated molecular wire formed by conducting polymer and molecular nanotube. <i>Journal of Chemical Physics</i> , 2002, 116, 1753-1756.	3.0	114
7	Field-Effect Carrier Transport in Poly(3-alkylthiophene) Nanofiber Networks and Isolated Nanofibers. <i>Macromolecules</i> , 2010, 43, 7891-7894.	4.8	78
8	Conductivity measurements of individual poly(3,4-ethylenedioxythiophene)/poly(styrenesulfonate) nanowires on nanoelectrodes using manipulation with an atomic force microscope. <i>Applied Physics Letters</i> , 2005, 86, 233103.	3.3	58
9	Nanofiber preparation by whisker method using solvent-soluble conducting polymers. <i>Thin Solid Films</i> , 2008, 516, 2478-2486.	1.8	54
10	Temperature dependence of inclusion-dissociation behavior between molecular nanotubes and linear polymers. <i>Journal of Chemical Physics</i> , 2001, 114, 1.	3.0	50
11	Insulation effect of an inclusion complex formed by polyaniline and β -cyclodextrin in solution. <i>Polymers for Advanced Technologies</i> , 2000, 11, 837-839.	3.2	47
12	Relationship between structural coherence and intrinsic carrier transport in an isolated poly(3-hexylthiophene) nanofiber. <i>Physical Review B</i> , 2011, 83, .	3.2	44
13	Annealing effect on performance and morphology of photovoltaic devices based on poly(3-hexylthiophene)-poly(ethylene oxide). <i>Journal of Polymer Science Part A</i> , 2011, 49, 2645-2652.	2.3	43
14	Synthesis and Characterization of Poly(3-hexylthiophene)-b-Polystyrene for Photovoltaic Application. <i>Polymers</i> , 2011, 3, 558-570.	4.5	36
15	Inclusion behavior between molecular nanotubes and linear polymer chains in aqueous solutions. <i>Journal of Chemical Physics</i> , 2000, 112, 4321-4325.	3.0	32
16	Conductivity measurement of insulated molecular wire formed by molecular nanotube and polyaniline. <i>Synthetic Metals</i> , 2005, 153, 497-500.	3.9	29
17	Ion-Conductive and Elastic Slide-Ring Gel Li Electrolytes Swollen with Ionic Liquid. <i>Electrochimica Acta</i> , 2017, 229, 166-172.	5.2	28
18	Conductivity measurements of PEDOT nanowires on nanoelectrodes. <i>Synthetic Metals</i> , 2005, 152, 497-500.	3.9	26

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19	Photoinduced electron transfer in nanostructured assemblies of layered semiconducting oxide and methylviologen: Effect of the location of acceptor molecules. <i>Microporous and Mesoporous Materials</i> , 2009, 123, 280-288.	4.4	25
20	Manipulation of Insulated Molecular Wire with Atomic Force Microscope. <i>Japanese Journal of Applied Physics</i> , 2001, 40, L1327-L1329.	1.5	24
21	HCl-doping of insulated molecular wire formed by emeraldine base polyaniline and molecular nanotube. <i>Synthetic Metals</i> , 2003, 135-136, 777-778.	3.9	24
22	Preparation of diblock copolymer based on poly(4-n-butyltriphenylamine) via palladium coupling polymerization. <i>Polymer</i> , 2009, 50, 95-101.	3.8	24
23	Ionic conduction of slide-ring gel swollen with ionic liquids. <i>Polymer</i> , 2013, 54, 1490-1496.	3.8	24
24	Thermoelectric Properties of Poly(3-Hexylthiophene) Nanofiber Mat with a Large Void Fraction. <i>Materials</i> , 2017, 10, 468.	2.9	24
25	Thermoelectric Properties of Poly(3-hexylthiophene) Nanofiber Aerogels with a Giant Seebeck Coefficient. <i>ACS Applied Polymer Materials</i> , 2021, 3, 455-463.	4.4	22
26	Simulation Study of the Initial Crystallization Processes of Poly(3-hexylthiophene) in Solution: Ordering Dynamics of Main Chains and Side Chains. <i>Journal of Physical Chemistry B</i> , 2013, 117, 6282-6289.	2.6	20
27	Two-dimensional spectroscopy of electric birefringence relaxation in frequency domain: Measurement method for second-order nonlinear after-effect function. <i>Journal of Chemical Physics</i> , 1999, 110, 4101-4108.	3.0	19
28	Intrachain conduction and main-chain conformation of conducting polymers as studied by frequency-domain electric birefringence spectroscopy. <i>Physical Review Letters</i> , 1994, 72, 2073-2076.	7.8	17
29	Title is missing!. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2002, 44, 275-278.	1.6	17
30	Dielectric relaxation of liquid-crystalline polyrotaxane. <i>Europhysics Letters</i> , 2007, 79, 66004.	2.0	17
31	Thin, transparent conductive films fabricated from conducting polymer nanofibers. <i>Polymer Journal</i> , 2013, 45, 819-823.	2.7	17
32	Thermoelectric properties of PEDOT:PSS aerogel secondary-doped in supercritical CO ₂ atmosphere with low thermal conductivity. <i>Polymer</i> , 2020, 206, 122912.	3.8	16
33	Charge transporting block copolymer for morphological control in light emitting device based on polymer blends. <i>Synthetic Metals</i> , 2010, 160, 1679-1682.	3.9	15
34	Photoluminescent Liquid Crystals Based on Trithienylphosphine Oxides. <i>Chemistry Letters</i> , 2009, 38, 800-801.	1.3	14
35	Synthesis of Diblock Copolymer Consisting of Poly(4-butyltriphenylamine) and Morphological Control in Photovoltaic Application. <i>Polymers</i> , 2011, 3, 1051-1064.	4.5	14
36	Transparent Conductive Films Fabricated from Polythiophene Nanofibers Compositing with Conventional Polymers. <i>Polymers</i> , 2013, 5, 1325-1338.	4.5	14

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37	Synthesis and characterization of poly(3-hexylthiophene)- block -poly(dimethylsiloxane) for photovoltaic application. <i>Polymer</i> , 2016, 92, 125-132.	3.8	12
38	Synthesis of a Molecular Tube in Dimethyl Sulfoxide and Its Inclusion Complexation Behavior with Poly(ethylene oxide- <i>i>ran</i> - <i>i</i> -propylene oxide). <i>Macromolecules</i> , 2008, 41, 5385-5392.	4.8	11
39	Ionic Conductivity and Mechanical Properties of Slide-Ring Gel Swollen with Electrolyte Solution Including Lithium Ions. <i>Electrochimica Acta</i> , 2015, 169, 433-439.	5.2	11
40	Fabrication of Four-Probe Fine Electrodes Using Scanning-Probe Nanofabrication. <i>Japanese Journal of Applied Physics</i> , 2003, 42, 4764-4766.	1.5	10
41	Simulation Study of the Effect of the Side-Chain Structure on the Initial Nucleation Process of Polythiophene Derivatives. <i>Journal of Physical Chemistry B</i> , 2017, 121, 1108-1117.	2.6	10
42	Nanostructures formed by combination of nanotube and polymer chain. <i>Macromolecular Symposia</i> , 2003, 201, 103-110.	0.7	9
43	Immobilization of molecular tubes on self-assembled monolayers of β -cyclodextrin and dodecanethiol inclusion complexes. <i>Applied Physics Letters</i> , 2004, 85, 3875-3877.	3.3	9
44	Electrical Conductivity Measurement of DNA Double-Stranded Chains by "One-by-One" Cutting Method Using Atomic Force Microscopy. <i>Journal of the Physical Society of Japan</i> , 2006, 75, 074803.	1.6	9
45	Microscopic conduction pathways of poly(3-hexylthiophene) nanofibers embedded in polymer film. <i>Polymer Journal</i> , 2012, 44, 371-374.	2.7	9
46	Frequency domain electric birefringence study of water-in-oil microemulsion droplets. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2002, 209, 281-287.	4.7	7
47	Semiconducting properties of p- and n-type organic nanofiber/poly(methyl methacrylate) composite films for film rectifier. <i>Synthetic Metals</i> , 2016, 213, 1-6.	3.9	7
48	Fabrication, characterization, and thermoelectric properties of soft polyurethane foam loaded with semiconducting poly(3-hexylthiophene) nanofibers. <i>Journal of Applied Polymer Science</i> , 2022, 139, .	2.6	7
49	Synthesis and properties of a new AIE macrocyclic emitter with triarylamine backbone. <i>Tetrahedron Letters</i> , 2017, 58, 3579-3582.	1.4	6
50	Electrical Double Percolation of Polybutadiene/Polyethylene Glycol Blends Loaded with Conducting Polymer Nanofibers. <i>Polymers</i> , 2020, 12, 2658.	4.5	6
51	Relation between intra-chain conduction and main-chain conformation of conducting polymers in solutions as studied by electric birefringence spectroscopy. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1999, 148, 155-162.	4.7	4
52	Fabrication Process of Fine Electrodes Using Shadow Mask Evaporation and Tip-Induced Local Oxidation. <i>Japanese Journal of Applied Physics</i> , 2002, 41, 4883-4886.	1.5	4
53	Chemical Adsorption of Poly(3-alkylthiophene) on Au Using Self-Assembling Technique. <i>Japanese Journal of Applied Physics</i> , 2007, 46, L1126-L1128.	1.5	4
54	Supramolecular structure of columnar liquid crystalline π -conjugated oligothiophenes with highly polarized photoluminescence properties. <i>Journal of Applied Physics</i> , 2009, 105, .	2.5	4

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55	Factors Affecting Voltammetric Responses for Redox-active Solid Layers of Li ₄ Ti ₅ O ₁₂ Coated on Electrodes. <i>Electrochemistry</i> , 2010, 78, 375-379.	1.4	4
56	Insulator surface modification of field-effect transistor using isolated poly(3-hexylthiophene) nanofiber. <i>Synthetic Metals</i> , 2013, 175, 200-204.	3.9	4
57	Crystallization of Poly(3-hexylthiophene) Nanofiber in a Narrow Groove. <i>Polymers</i> , 2016, 8, 231.	4.5	4
58	Ionic transport and mechanical properties of slide-ring gel swollen with Mg-ion electrolytes. <i>Ionics</i> , 2020, 26, 255-261.	2.4	4
59	BLACK HOLE ENTROPY IN THE MEMBRANE PARADIGM. <i>International Journal of Modern Physics D</i> , 2002, 11, 789-804.	2.1	3
60	Adsorption Behavior of Coumarin onto a Concaved Substrate in Water under an Electric Field. <i>Journal of the Electrochemical Society</i> , 2009, 156, D1.	2.9	3
61	Frequency-domain electric birefringence spectra of conducting polymers. <i>Synthetic Metals</i> , 1995, 69, 689-690.	3.9	2
62	Molecular dynamics simulation on the nanofiber formation of conducting polymers in solutions. <i>Molecular Crystals and Liquid Crystals</i> , 2016, 629, 248-253.	0.9	2
63	Semiconducting Properties of the Hybrid Film of Elastic Poly(styrene-b-butadiene-b-styrene) Block Copolymer and Semiconducting Poly(3-hexylthiophene) Nanofibers. <i>Polymers</i> , 2020, 12, 2118.	4.5	2
64	Cyclic Emitter with Tetraphenylsilane and Tetraphenylethene Units Exhibiting Tunable Color Emissions. <i>Chemistry Letters</i> , 2017, 46, 1546-1549.	1.3	1
65	Convenient Fabrication of Fine Electrodes for Electric Measurement of Nanofibers by Nanoimprint Lithography. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 030204.	1.5	1
66	Conductivity Measurement of Single Nanowire Obtained by Dehydrofluorination of Nanofibrils of Poly(vinylidene difluoride). <i>Japanese Journal of Applied Physics</i> , 2009, 48, 030213.	1.5	0
67	Convenient Fabrication of Fine Electrodes for Electric Measurement of Nanofibers by Nanoimprint Lithography. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 030204.	1.5	0
68	Temperature Characteristic of pn Junction Diode Using Composite Film of Conductive Polymer Nanofibers. <i>Kobunshi Ronbunshu</i> , 2017, 74, 557-564.	0.2	0
69	Structure and Function of Polymeric Inclusion Complex of Molecular Nanotubes and Polymer Chains. <i>Journal of Applied Polymer Science</i> , 2003, 88, 65-76.		0
70	Cover Image, Volume 139, Issue 23. <i>Journal of Applied Polymer Science</i> , 2022, 139, .	2.6	0