Hiroshi Sakaguchi

List of Publications by Year
in descending order

77	1,506	430754	330025
papers	citations	18 h-index	37 g-index

80	80	80	2162
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Electromechanical and Conductance Switching Properties of Single Oligothiophene Molecules. Nano Letters, 2005, 5, 1491-1495.	4.5	190
2	Electrochemical epitaxial polymerization of single-molecular wires. Nature Materials, 2004, 3, 551-557.	13.3	126
3	Homochiral polymerization-driven selective growth of graphene nanoribbons. Nature Chemistry, 2017, 9, 57-63.	6.6	121
4	Widthâ€Controlled Subâ€Nanometer Graphene Nanoribbon Films Synthesized by Radicalâ€Polymerized Chemical Vapor Deposition. Advanced Materials, 2014, 26, 4134-4138.	11.1	119
5	Direct Visualization of the Formation of Single-Molecule Conjugated Copolymers. Science, 2005, 310, 1002-1006.	6.0	115
6	Determination of performance on tunnel conduction through molecular wire using a conductive atomic force microscope. Applied Physics Letters, 2001, 79, 3708-3710.	1.5	66
7	Strain-induced skeletal rearrangement of a polycyclic aromatic hydrocarbon on a copper surface. Nature Communications, 2017, 8, 16089.	5.8	57
8	Vertically aligned ZnO nanorods doped with lithium for polymer solar cells: defect related photovoltaic properties. Journal of Materials Chemistry, 2011, 21, 9710.	6.7	54
9	Ultrafast optical switching by photoinduced electrochromism in cast films of polymeric 4,4â€²-bipyridinium salts with di-iodides. Applied Physics Letters, 1998, 73, 10-12.	1.5	40
10	Second Harmonic Generation by the Use of Metal to Ligand Charge-Transfer Transition of Ruthenium(II)â€“Bipyridine Metal Complex in Langmuirâ€“Blodgett Film. Chemistry Letters, 1989, 18, 1715-1718.	0.7	38
11	Subpicosecond photoinduced switching of second-harmonic generation from a ruthenium complex in supported Langmuir-Blodgett films. The Journal of Physical Chemistry, 1993, 97, 1474-1476.	2.9	37
12	Ultrafast photonâ€mode recording by novel photochromic polymer via photoinduced electron transfer. Applied Physics Letters, 1993, 63, 2762-2764.	1.5	37
13	Roomâ€Temperature Phosphorescence of Crystalline 1,4â€Bis(aroyl)â€2,5â€dibromobenzenes. European Journal of Organic Chemistry, 2016, 2016, 467-473.	1.2	36
14	Laser-Induced Modulation of Second-Harmonic Light Emission from Ru(II)-Bipyridine Metal Complex in Langmuir-Blodgett Film*. Japanese Journal of Applied Physics, 1991, 30, L377-L379.	0.8	34
15	Effective synthesis of diiodinated picene and dibenzo[a,h]anthracene by AuCl-catalyzed double cyclization. Tetrahedron Letters, 2012, 53, 1617-1619.	0.7	26
16	Nanoprint lithography of gold nanopatterns on polyethylene terephthalate. Microelectronic Engineering, 2009, 86, 590-595.	1.1	25
17	Nanometer-Scale Photoelectric Property of Organic Thin Films Investigated by a Photoconductive Atomic Force Microscope. Japanese Journal of Applied Physics, 1999, 38, 3908-3911.	0.8	22
18	Photochemical modulation of second order nonlinear optical properties of alternate Langmuir-Blodgett films containing RuII-bipyridine complexes. Thin Solid Films, 1992, 210-211, 160-162.	0.8	21

#	Article	IF	Citations
19	Aggregationâ€Induced Orangeâ€toâ€Red Fluorescence of 2,5â€Bis(diarylamino)terephthalic Acid Dithioesters. European Journal of Organic Chemistry, 2016, 2016, 5950-5956.	1.2	19
20	Chiral Discrimination and Manipulation of Individual Heptahelicene Molecules on Cu(001) by Noncontact Atomic Force Microscopy. Journal of Physical Chemistry C, 2018, 122, 4997-5003.	1.5	17
21	Control of Self Organization in Conjugated Polymer Fibers. ACS Applied Materials & Interfaces, 2010, 2, 2995-2997.	4.0	16
22	Optical waveguide studies on photoinduced electrochromism in ultrathin films of ion-pair charge-transfer complexes of 4,4â€²-bipyridinium ions. Thin Solid Films, 1994, 243, 660-663.	0.8	15
23	Ultra-fast photoresponses of CdS nanoparticles in Nafion films. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1997, 126, 197-208.	2.3	15
24	Laser-induced electron liberation from carbazole-containing bilayer membranes in aqueous systems. The Journal of Physical Chemistry, 1988, 92, 6151-6156.	2.9	14
25	Ultrafast Colour Changes in Organic Thin Films Based on Photoinduced Electron Transfer Reactions. Molecular Crystals and Liquid Crystals, 1994, 247, 39-48.	0.3	13
26	Ruthenium Complexes Containing Fully Conjugated Ligands Terminated with Thiol Groups. Chemistry Letters, 2002, 31, 610-611.	0.7	12
27	Switch of the magnetic field effect on photon upconversion based on sensitized tripletâ€“triplet annihilation. Photochemical and Photobiological Sciences, 2016, 15, 1462-1467.	1.6	12
28	Bottomâ€Up Onâ€Surface Synthesis of Twoâ€Dimensional Graphene Nanoribbon Networks and Their Thermoelectric Properties. Chemistry - an Asian Journal, 2019, 14, 4400-4407.	1.7	11
29	Quadratic nonlinear optical properties of ruthenium (II)-bipyridine complexes in crystalline powders. Applied Organometallic Chemistry, 1991, 5, 257-260.	1.7	10
30	<title>Ultrafast photon-mode recording based on photoinduced electron transfer in ion-pair charge-transfer complexes of 4,4'-bipyridinium salts</title>. , 1995, , .		10
31	Ultrafast dynamics of fluorescence-activated CdS nanoparticles in aqueous solutions by femtosecond transient bleaching spectroscopy. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2000, 169, 233-239.	2.3	10
32	C₆₀â€“ethylenediamine adduct thin film as a buffer layer for inverted-type organic solar cells. RSC Advances, 2014, 4, 34950.	1.7	10
33	Role of Magnesium and the Effect of Surface Roughness on the Hydroxyapatite-Forming Ability of Zirconia Induced by Biomimetic Aqueous Solution Treatment. Materials, 2020, 13, 3045.	1.3	9
34	Manifold dynamic non-covalent interactions for steering molecular assembly and cyclization. Chemical Science, 2021, 12, 11659-11667.	3.7	9
35	PHOTO-INDUCED CHARGE SEPARATION IN CARBAZOLE-CONTAINING BILAYER MEMBRANE IN THE PRESENCE OF VARIOUS ELECTRON ACCEPTORS. Chemistry Letters, 1985, 14, 1735-1738.	0.7	8
36	First charge resonance band observed by steady photolysis at room temperature in solution. Journal of the Chemical Society Chemical Communications, 1993, , 599.	2.0	8

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37	Sensitive detection of photoinduced electrochromism in ultra-thin organic films.. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 1993, 6, 133-138.	0.1	8
38	Effect of gold nanoparticle in holeâ€transport layer on inverted organic thinâ€film solar cell performance. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 1645-1650.	0.8	8
39	Wide graphene nanoribbons produced by interchain fusion of poly(p-phenylene) via two-zone chemical vapor deposition. Chemical Communications, 2017, 53, 7034-7036.	2.2	8
40	Ultrafast dynamics of transient bleaching of surface modified cadmium sulphide nano-particles in Nafion films. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1999, 146, 265-272.	2.3	7
41	Fabrication of Stable, Highly Flat Gold Film Electrodes with an Effective Thickness on the Order of 10 nm. Analytical Chemistry, 2007, 79, 6851-6856.	3.2	7
42	Nanohole Arrays Fabricated on Gold Surfaces by Total Wet Nanopatterning through Block Copolymer Masks. Japanese Journal of Applied Physics, 2009, 48, 06FE08.	0.8	6
43	Orientation and Electronic Structures of Multilayered Graphene Nanoribbons Produced by Two-Zone Chemical Vapor Deposition. Langmuir, 2017, 33, 10439-10445.	1.6	6
44	Effect of gold nanoparticle on photon upconversion based on sensitized tripletâ€“triplet annihilation in polymer films. Molecular Crystals and Liquid Crystals, 2017, 654, 196-200.	0.4	6
45	(Poly)terephthalates with Efficient Blue Emission in the Solid State. Chemistry - an Asian Journal, 2019, 14, 1792-1800.	1.7	6
46	Manipulable Metal Catalyst for Nanographene Synthesis. Nano Letters, 2020, 20, 8339-8345.	4.5	6
47	Low-temperature synthesis of titanium oxide/gold nanoparticle composite powders using a combination of the solâ€“gel process and ultraviolet light irradiation. Journal of Sol-Gel Science and Technology, 2016, 78, 692-697.	1.1	5
48	Formation of Dibenzopentalene-linking Polymers under the Two-zone CVD and Wet Conditions. Chemistry Letters, 2017, 46, 1099-1101.	0.7	5
49	Interchain-linked Graphene Nanoribbons from Dibenzo[g,p]chrysene via Two-zone Chemical Vapor Deposition. Chemistry Letters, 2017, 46, 1525-1527.	0.7	5
50	Fabrication and photocatalytic behavior of titanium oxideâ€“gold nanoparticles composite ultrathin films prepared using surface solâ€“gel process. Journal of Sol-Gel Science and Technology, 2020, 93, 563-569.	1.1	5
51	Benzo[b]trithiophene Polymer Network Prepared by Electrochemical Polymerization with a Combination of Thermal Conversion. Chemistry Letters, 2012, 41, 140-141.	0.7	4
52	<title>Extremely sensitive detection of transient species in laser flash photolysis of ultrathin organized molecular films by optical waveguide</title>. , 1995, , .		3
53	Ultrafast photoresponses of CdS nanoparticles in self-assembled films.. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 1998, 11, 73-76.	0.1	3
54	<title>Ultrafast transient bleaching of CdS nanoparticles in various media</title>. , 1998, 3469, 174.		3

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55	Femtosecond Hyper-Rayleigh Scattering Measurement System for Organic Dyes in Solutions at the Excited State. Molecular Crystals and Liquid Crystals, 2001, 370, 119-122.	0.3	3
56	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.	0.4	3
57	Effect of silver nanoparticle on singlet exciton fission in rubrene films. Molecular Crystals and Liquid Crystals, 2017, 654, 209-213.	0.4	3
58	On-surface synthesis of graphene clusters from a Z-bar-linkage precursor with quaterphenyl branches. Materials Chemistry Frontiers, 2018, 2, 775-779.	3.2	3
59	Synergetic effect of silver nanoplate and magnetic field on photon upconversion based on sensitized tripletâ€“triplet annihilation in polymer system. Japanese Journal of Applied Physics, 2020, 59, SDDB04.	0.8	3
60	High density optical recording based on transient photobleaching.. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 1995, 8, 129-136.	0.1	2
61	A COMPARITIVE IN VITRO BIOACTIVY EVALUATION OF POLYVINYLIDENE FLUORIDE AND POLYCAPROLACTONE INCORPORATED WITH AMORPHOUS CALCIUM PHOSPHATE PARTICLES. Phosphorus Research Bulletin, 2020, 36, 15-22.	0.1	2
62	Novel Second Harmonic Generation from Intermolecular Charge-Transfer Complexes of Styrylpyridinium Salts in the Crystalline State. Molecular Crystals and Liquid Crystals, 1994, 255, 121-129.	0.3	1
63	Electrical measurements for single molecules using scanning probe microscopes combined with laser excitation. Bunseki Kagaku, 2003, 52, 383-392.	0.1	1
64	Electrostatic Repulsion-Induced Desorption of Dendritic Viologen-Arranged Molecules Anchored on a Gold Surface through a Goldâ€“Thiolate Bond Leading to a Tunable Molecular Template. Langmuir, 2018, 34, 6420-6427.	1.6	1
65	Effect of silver nanoplate on singlet exciton fission in rubrene polymer-composite films. Japanese Journal of Applied Physics, 2020, 59, SDDB03.	0.8	1
66	Electric Field Effects on Sensitized Fluorescence Emission From Nematic Liquid Crystal Cells. Molecular Crystals and Liquid Crystals Incorporating Nonlinear Optics, 1988, 158, 185-196.	0.3	0
67	Excited State Enhancement of the Third Order Optical Nonlinearity of Polyalkylthiophene Pumped by Low Repetition Rate Femtosecond Ti:S Amplifier. Molecular Crystals and Liquid Crystals, 1997, 294, 279-282.	0.3	0
68	Kinetics of Adsorption and Self-assembling of Thiophene and Dodecanethiol Studied by Optical Second Harmonic Generation. Chemistry Letters, 2003, 32, 652-653.	0.7	0
69	Highly Oriented Donor-Acceptor Molecules within Electrospun Nanofibers. Molecular Crystals and Liquid Crystals, 2011, 539, 40/[380]-44/[384].	0.4	0
70	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
71	Front Cover: Aggregation-Induced Orange-to-Red Fluorescence of 2,5-Bis(diarylamino)terephthalic Acid Dithioesters (Eur. J. Org. Chem. 36/2016). European Journal of Organic Chemistry, 2016, 2016, 5907-5907.	1.2	0
72	Fabrication of Bioactive Zirconia by Doubled Sandblasting Process and Incorporation of Apatite Nuclei. Key Engineering Materials, 2019, 829, 151-156.	0.4	0

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73	Synthesis of graphene nanoribbons by topological engineering and their applications. Tanso, 2021, 2021, 95-104.	0.1	0
74	å…‰ã•é‡'å±žæŽ¢é‡ã‚'ç"¨ã„ã‚‹å•ä¸€åˆ†å»æ°—è¨ˆæ¸¬. Electrochemistry, 2003, 71, 956-960.	0.6	0
75	Electrochemical Polymerization of Single-Molecular Wires. Hyomen Kagaku, 2006, 27, 572-575.	0.0	0
76	Surface Synthesis of Molecular Wire Architectures. Advances in Atom and Single Molecule Machines, 2017, , 467-486.	0.0	0
77	Bio-inspired Surface Catalysis to Produce Graphene Nanoribbons. Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry, 2019, 77, 576-583.	0.0	0