

Tsuneaki Sakurai

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113
papers

5,313
citations

25
h-index

72
g-index

123
ext. papers

5,962
ext. citations

6.9
avg, IF

5.37
L-index

#	Paper	IF	Citations
113	A large-area, flexible pressure sensor matrix with organic field-effect transistors for artificial skin applications. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 9966-70	11.5	1512
112	Conformable, flexible, large-area networks of pressure and thermal sensors with organic transistor active matrixes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 12321-5	11.5	1139
111	Control over differentiation of a metastable supramolecular assembly in one and two dimensions. <i>Nature Chemistry</i> , 2017 , 9, 493-499	17.6	279
110	Rational design of crystalline supermicroporous covalent organic frameworks with triangular topologies. <i>Nature Communications</i> , 2015 , 6, 7786	17.4	185
109	Photoinduced Charge-Carrier Generation in Epitaxial MOF Thin Films: High Efficiency as a Result of an Indirect Electronic Band Gap?. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 7441-5	16.4	182
108	Electron delocalization and charge mobility as a function of reduction in a metal-organic framework. <i>Nature Materials</i> , 2018 , 17, 625-632	27	182
107	Unraveling Unprecedented Charge Carrier Mobility through Structure Property Relationship of Four Isomers of Didodecyl[1]benzothieno[3,2-b][1]benzothiophene. <i>Advanced Materials</i> , 2016 , 28, 7106-14	24	117
106	Two-dimensional tetrathiafulvalene covalent organic frameworks: towards latticed conductive organic salts. <i>Chemistry - A European Journal</i> , 2014 , 20, 14608-13	4.8	109
105	Charge carrier mobility in organic molecular materials probed by electromagnetic waves. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 11093-113	3.6	108
104	Prominent electron transport property observed for triply fused metalloporphyrin dimer: directed columnar liquid crystalline assembly by amphiphilic molecular design. <i>Journal of the American Chemical Society</i> , 2008 , 130, 13812-3	16.4	94
103	Electron- or hole-transporting nature selected by side-chain-directed π -stacking geometry: liquid crystalline fused metalloporphyrin dimers. <i>Journal of the American Chemical Society</i> , 2011 , 133, 6537-40	16.4	73
102	A new class of epitaxial porphyrin metal-organic framework thin films with extremely high photocarrier generation efficiency: promising materials for all-solid-state solar cells. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 12739-12747	13	64
101	Propeller-shaped fused oligothiophenes: a remarkable effect of the topology of sulfur atoms on columnar stacking. <i>Journal of the American Chemical Society</i> , 2013 , 135, 18268-71	16.4	63
100	Ion-based materials derived from positively and negatively charged chloride complexes of π -conjugated molecules. <i>Journal of the American Chemical Society</i> , 2013 , 135, 14797-805	16.4	58
99	Cation modules as building blocks forming supramolecular assemblies with planar receptor-anion complexes. <i>Journal of the American Chemical Society</i> , 2013 , 135, 1284-7	16.4	57
98	Semiconducting Nanotubes by Intrachain Folding Following Macroscopic Assembly of a NaphthaleneDiimide (NDI) Appended Polyurethane. <i>Macromolecules</i> , 2015 , 48, 879-888	5.5	45
97	Functional Sulfur-Doped Buckybowls and Their Concave-Convex Supramolecular Assembly with Fullerenes. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 13047-13051	16.4	43

96	Topologically Directed Assemblies of Semiconducting Sphere-Rod Conjugates. <i>Journal of the American Chemical Society</i> , 2017 , 139, 18616-18622	16.4	43
95	Observation of dissociative quasi-free electron attachment to nucleoside via excited anion radical in solution. <i>Nature Communications</i> , 2019 , 10, 102	17.4	37
94	Evaluation of intrinsic charge carrier transport at insulator-semiconductor interfaces probed by a non-contact microwave-based technique. <i>Scientific Reports</i> , 2013 , 3, 3182	4.9	36
93	Ion-Pairing Assemblies Based on Pentacyano-Substituted Cyclopentadienide as a π -Electronic Anion. <i>Chemistry - A European Journal</i> , 2016 , 22, 7843-50	4.8	35
92	π -Electron Systems That Form Planar and Interlocked Anion Complexes and Their Ion-Pairing Assemblies. <i>Chemistry - A European Journal</i> , 2016 , 22, 626-38	4.8	30
91	The reductive aromatization of naphthalene diimide: a versatile platform for 2,7-diazapyrenes. <i>Chemical Communications</i> , 2018 , 54, 5177-5180	5.8	27
90	Photoinduzierte Erzeugung von Ladungsträgern in epitaktischen MOF-Dünnschichten: hohe Leistung aufgrund einer indirekten elektronischen Bandlücke?. <i>Angewandte Chemie</i> , 2015 , 127, 7549-7553	3.6	26
89	Optical and Structural Properties of ESIPT Inspired HBT-Fluorene Molecular Aggregates and Liquid Crystals. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 10407-10416	3.4	25
88	Corannulene-fused anion-responsive π -conjugated molecules that form self-assemblies with unique electronic properties. <i>Chemistry - an Asian Journal</i> , 2013 , 8, 2088-95	4.5	25
87	Toward Bioelectronic Nanomaterials: Photoconductivity in Protein-Porphyrin Hybrids Wrapped around SWCNT. <i>Advanced Functional Materials</i> , 2018 , 28, 1704031	15.6	23
86	Ion-based assemblies of planar anion complexes and cationic Pt(II) complexes. <i>Chemical Communications</i> , 2014 , 50, 10615-8	5.8	23
85	Toward ultralow-bandgap liquid crystalline semiconductors: use of triply fused metalloporphyrin trimer-pentamer as extra-large π -extended mesogenic motifs. <i>Chemistry - A European Journal</i> , 2012 , 18, 10554-61	4.8	23
84	Repeat protein scaffolds: ordering photo- and electroactive molecules in solution and solid state. <i>Chemical Science</i> , 2016 , 7, 4842-4847	9.4	23
83	Durian-Shaped CdS@ZnSe Core/Mesoporous-Shell Nanoparticles for Enhanced and Sustainable Photocatalytic Hydrogen Evolution. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 2212-2217	6.4	21
82	Anomalous Photoinduced Hole Transport in Type I Core/Mesoporous-Shell Nanocrystals for Efficient Photocatalytic H Evolution. <i>ACS Nano</i> , 2019 , 13, 8356-8363	16.7	21
81	Non-contact, non-destructive, quantitative probing of interfacial trap sites for charge carrier transport at semiconductor-insulator boundary. <i>Applied Physics Letters</i> , 2014 , 105, 033302	3.4	21
80	Solvent switchable nanostructures and the function of a π -amphiphile. <i>Nanoscale</i> , 2018 , 10, 3272-3280	7.7	20
79	Systematic Synthesis of Tetrathia[8]circulenes: The Influence of Peripheral Substituents on the Structures and Properties in Solution and Solid States. <i>Journal of Organic Chemistry</i> , 2020 , 85, 62-69	4.2	20

78	Complex permittivity analysis revisited: Microwave spectroscopy of organic semiconductors with resonant cavity. <i>Applied Physics Letters</i> , 2017 , 110, 153303	3.4	19
77	Highly Fluorescent Liquid Crystals from Excited-State Intramolecular Proton Transfer Molecules. <i>Advanced Optical Materials</i> , 2019 , 7, 1801349	8.1	19
76	Pressure Modulation of Backbone Conformation and Intermolecular Distance of Conjugated Polymers Toward Understanding the Dynamism of π -Figuration of their Conjugated System. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 7219-30	3.4	18
75	Assembled Structures of Anion-Responsive π -Systems Tunable by Alkyl/Perfluoroalkyl Segments in Peripheral Side Chains. <i>Chemistry of Materials</i> , 2013 , 25, 2656-2662	9.6	18
74	Fusing Porphyrins and Phospholes: Synthesis and Analysis of a Phosphorus-Containing Porphyrin. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 12311-5	16.4	18
73	Cooperative supramolecular polymerization of a perylene diimide derivative and its impact on electron-transporting properties. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 31024-31029	3.6	16
72	Evaluation of the intrinsic charge carrier transporting properties of linear- and bent-shaped π -extended benzo-fused thieno[3,2-b]thiophenes. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 9624-8	3.6	15
71	Donor/Acceptor Segregated π -Stacking Arrays by Use of Shish-Kebab-Type Polymeric Backbones: Highly Conductive Discotic Blends of Phthalocyaninatopolysiloxanes and Perylenediimides. <i>Macromolecules</i> , 2017 , 50, 9265-9275	5.5	15
70	Ion-pair-based assemblies comprising pyrrole-pyrazole hybrids. <i>Chemistry - A European Journal</i> , 2013 , 19, 9224-33	4.8	15
69	Functional Sulfur-Doped Buckybowls and Their Concave/Convex Supramolecular Assembly with Fullerenes. <i>Angewandte Chemie</i> , 2016 , 128, 13241-13245	3.6	15
68	Control of optical and electrical properties of nanosheets by the chemical structure of the turning point in a foldable polymer. <i>Nanoscale</i> , 2016 , 8, 14673-81	7.7	14
67	Formation Of Nanowires From Pentacene Derivatives By Single-particle Triggered Linear Polymerization. <i>Advanced Materials Letters</i> , 2015 , 6, 99-103	2.4	14
66	AIE Active Carbazole-Benzothiazole Based ESIPT Motifs: Positional Isomers Directing the Optical and Electronic Properties. <i>ChemistrySelect</i> , 2017 , 2, 1959-1966	1.8	13
65	Preferential formation of columnar mesophases via peripheral modification of discotic π -systems with immiscible side chain pairs. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 1490-1496	7.1	13
64	Cold Crystallization of Ferrocene-Hinged π -Conjugated Molecule Induced by the Limited Conformational Freedom of Ferrocene. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 8325-8332	3.4	12
63	Reversible Control of Radius and Morphology of Fluorene-Azobenzene Copolymer Nanowires by Light Exposure. <i>Advanced Materials Interfaces</i> , 2015 , 2, 1400450	4.6	12
62	Supramolecular Chirality Issues in Unorthodox Naphthalene Diimide Gelators. <i>Chemistry - A European Journal</i> , 2018 , 24, 1938-1946	4.8	12
61	Electrically Switchable Amplified Spontaneous Emission from Liquid Crystalline Phase of an AIEE-Active ESIPT Molecule. <i>Advanced Optical Materials</i> , 2020 , 8, 1902158	8.1	11

60	Electron-transporting foldable alternating copolymers of perylene diimide and flexible macromolecular chains. <i>Materials Chemistry Frontiers</i> , 2018 , 2, 718-729	7.8	11
59	Ultra-fast single-crystal polymerization of large-sized covalent organic frameworks. <i>Nature Communications</i> , 2021 , 12, 5077	17.4	11
58	Cyclobuteno[60]fullerenes as Efficient n-Type Organic Semiconductors. <i>Chemistry - A European Journal</i> , 2016 , 22, 13627-31	4.8	10
57	Formation of nanowires via single particle-triggered linear polymerization of solid-state aromatic molecules. <i>Nanoscale</i> , 2016 , 8, 14925-31	7.7	10
56	Ultrathin Two Dimensional (2D) Supramolecular Assembly and Anisotropic Conductivity of an Amphiphilic Naphthalene-Diimide. <i>Langmuir</i> , 2020 , 36, 13096-13103	4	10
55	Ion-Free and Ion-Pairing Assemblies of Anion-Responsive π -Electronic Systems Possessing Directly Linked Alkyl Chains. <i>Chemistry - an Asian Journal</i> , 2016 , 11, 2025-9	4.5	10
54	Rapid Evaluation of Electron Mobilities at Semiconductor-Insulator Interfaces in an Ambient Atmosphere by a Contactless Microwave-Based Technique. <i>ACS Omega</i> , 2017 , 2, 164-170	3.9	9
53	Relaxation of Plasma Carriers in Graphene: An Approach by Frequency-Dependent Optical Conductivity Measurement. <i>Advanced Optical Materials</i> , 2018 , 6, 1701402	8.1	9
52	Synthesis and Crystal Packing Structures of 2,7-Diazapyrenes with Various Alkyl Groups at 1,3,6,8-Positions. <i>Chemistry Letters</i> , 2020 , 49, 465-468	1.7	8
51	Highly Miscible Hybrid Liquid-Crystal Systems Containing Fluorescent Excited-State Intramolecular Proton Transfer Molecules. <i>Langmuir</i> , 2019 , 35, 14031-14041	4	8
50	Carboxylate-Driven Supramolecular Assemblies of Protonated meso-Aryl-Substituted Dipyrrrolylpyrazoles. <i>Chemistry - A European Journal</i> , 2015 , 21, 9520-7	4.8	8
49	Protein-directed crystalline 2D fullerene assemblies. <i>Nanoscale</i> , 2020 , 12, 3614-3622	7.7	8
48	Fabrication of Clickable Polyfluorene Nanowires with High Aspect Ratio as Biological Sensing Platforms. <i>ACS Sensors</i> , 2016 , 1, 766-774	9.2	8
47	Conjugated Nanowire Sensors via High-Energy Single-Particle-Induced Linear Polymerization of 9,9'-Spiro[9 H-fluorene] Derivatives. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 8614-8623	3.4	8
46	Pluripotent Features of Doubly Thiophene-Fused Benzodiphospholes as Organic Functional Materials. <i>Chemistry - A European Journal</i> , 2019 , 25, 6425-6438	4.8	7
45	Porphyrin Nanowire Bundles for Efficient Photoconductivity, Photoemission, and Generation of Singlet Oxygens toward Photodynamic Therapy. <i>ACS Applied Nano Materials</i> , 2020 , 3, 6043-6053	5.6	7
44	Peripherally Cyanated Subphthalocyanines as Potential n-Type Organic Semiconductors. <i>Chemistry - A European Journal</i> , 2018 , 24, 8331-8342	4.8	7
43	Frustrated Layered Self-Assembly Induced Superlattice from Two-Dimensional Nanosheets. <i>Nano Letters</i> , 2020 , 20, 8647-8653	11.5	6

42	Metal-Free Organic Luminophores that Exhibit Dual Fluorescence and Phosphorescence Emission at Room Temperature. <i>ChemPlusChem</i> , 2021 , 86, 446-459	2.8	6
41	Stabilization of Charge Carriers in Picket-Fence Polythiophenes Using Dielectric Side Chains. <i>Chemistry - an Asian Journal</i> , 2016 , 11, 2284-90	4.5	6
40	Remarkable effect of halogenation of aromatic compounds on efficiency of nanowire formation through polymerization/crosslinking by high-energy single particle irradiation. <i>Radiation Physics and Chemistry</i> , 2018 , 142, 100-106	2.5	5
39	Fusing Porphyrins and Phospholes: Synthesis and Analysis of a Phosphorus-Containing Porphyrin. <i>Angewandte Chemie</i> , 2016 , 128, 12499-12503	3.6	5
38	In-situ analysis of microwave conductivity and impedance spectroscopy for evaluation of charge carrier dynamics at interfaces. <i>Applied Physics Letters</i> , 2017 , 111, 203302	3.4	5
37	Interactions of Single Particle with Organic Matters: A Facile Bottom-Up Approach to Low Dimensional Nanostructures. <i>Quantum Beam Science</i> , 2020 , 4, 7	1.6	4
36	Intrinsic Charge Carrier Mobilities at Insulator/Semiconductor Interfaces Probed by Microwave-based Techniques: Studies with Liquid Crystalline Organic Semiconductors. <i>Chemistry Letters</i> , 2015 , 44, 1401-1403	1.7	4
35	Side Chain-Directed Assembly of Large Discotic π -Conjugated Molecules: Toward Tuning and Stabilization of Mesophases. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2015 , 28, 583-587	0.7	4
34	Acoustic characteristics of PMMA in the steady stress-strain state investigated by coherent Brillouin scattering method. <i>Journal of Applied Polymer Science</i> , 2000 , 76, 978-986	2.9	4
33	Towards Macroscopically Anisotropic Functionality: Oriented Metallo-supramolecular Polymeric Materials Induced by Magnetic Fields. <i>Angewandte Chemie</i> , 2021 , 133, 1951-1956	3.6	4
32	Towards Macroscopically Anisotropic Functionality: Oriented Metallo-supramolecular Polymeric Materials Induced by Magnetic Fields. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 1923-1928	16.4	4
31	Naphthalenediimide (NDI)-Conjugated Foldable Polyurethanes: Impact of Chromophoric Location on Hierarchical Supramolecular Assembly and Conductivity. <i>ChemNanoMat</i> , 2018 , 4, 860-866	3.5	4
30	Impact of Unsymmetrical Alkyl/Fluoroalkyl Side Chains over Coil-to-Rod Transition of Soluble Polyacetylenes: Modulation of Electronic Conjugation of Isolated Chains and Their Self-Assembly. <i>Macromolecules</i> , 2019 , 52, 4916-4925	5.5	3
29	Extended conjugation of ESIPT-type dopants in nematic liquid crystalline phase for enhancing fluorescence efficiency and anisotropy. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 28393-28400	3.6	3
28	2,6-Diphenyl- and -distyryl-capped 3,7-dialkoxybenzo[1,2-b:4,5-b']dithiophenes and their dithieno-annulated higher homologs: structural phase transition with enhanced charge carrier mobility. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 18805-12	3.6	3
27	Systematic studies on side-chain structures of phthalocyaninato-polysiloxanes: Polymerization and self-assembling behaviors. <i>Journal of Porphyrins and Phthalocyanines</i> , 2015 , 19, 160-170	1.8	3
26	Fabrication of Fluorescent Nanowires via High-Energy Particles-Triggered Polymerization Reactions. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2016 , 29, 373-377	0.7	3
25	Efficient Emission of Ultraviolet Light by Solid State Organic Fluorophores: Synthesis and Characterization of 1,4-Dialkenyl-2,5-dioxybenzenes. <i>Chemistry - A European Journal</i> , 2021 , 27, 1626-1637	4.8	3

24	Assembly effect on the charge carrier mobility in quaterthiophene-based n/p-materials. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 6649-6655	7.1	2
23	Quantitative evaluation of spatial scale of carrier trapping at grain boundary by GHz-microwave dielectric loss spectroscopy. <i>Journal of Physics: Conference Series</i> , 2017 , 924, 012002	0.3	2
22	Study on Segmental Motion and Ion Binding in Polyelectrolyte Solutions by Ultrasonic Spectroscopy. <i>Journal of Solution Chemistry</i> , 2004 , 33, 747-760	1.8	2
21	Analytical model of the phase mixing phenomena by the use of the wkb method of solution. <i>Geophysical and Astrophysical Fluid Dynamics</i> , 1995 , 79, 277-287	1.4	2
20	Magnetostatic Wave Delay Lines Using the Nonuniformly Magnetized YIG Film		2
19	23 From Rays to Ray Development of Functional Nanomaterials Using Ion Beams <i>Radioisotopes</i> , 2017 , 66, 579-585	0.1	2
18	Transient Optical-Microwave Spectroscopy for Electron Mobility Assessment in Solids and Gels: A Comprehensive Approach. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2018 , 31, 91-99	0.7	2
17	Liquid Crystals: Highly Fluorescent Liquid Crystals from Excited-State Intramolecular Proton Transfer Molecules (Advanced Optical Materials 2/2019). <i>Advanced Optical Materials</i> , 2019 , 7, 1970008	8.1	1
16	Highly Efficient Solid-State Intra-Track Polymerization of Ethynyl-Substituted Spirobifluorenes Triggered by Swift Heavy Ion Irradiations. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2020 , 33, 91-96	0.7	1
15	A Particle with High Energy: A Versatile Tool for Nanomaterials. <i>Springer Briefs in Molecular Science</i> , 2015 , 19-26	0.6	1
14	Ubiquitous organic molecule-based free-standing nanowires with ultra-high aspect ratios. <i>Nature Communications</i> , 2021 , 12, 4025	17.4	1
13	Rod-like transition first or chain aggregation first? ordered aggregation of rod-like poly(p-phenyleneethynylene) chains in solution. <i>Chemical Communications</i> , 2019 , 55, 13342-13345	5.8	1
12	Peripherally Cyanated Subphthalocyanines as Potential n-Type Organic Semiconductors. <i>Chemistry - A European Journal</i> , 2018 , 24, 8244-8244	4.8	1
11	Remarkable Increase of Fluorescence Quantum Efficiency by Cyano Substitution on an ESIPT Molecule 2-(2-Hydroxyphenyl)benzothiazole: A Highly Photoluminescent Liquid Crystal Dopant. <i>Crystals</i> , 2021 , 11, 1105	2.3	1
10	A structural parameter to link molecular geometry to macroscopic orientation in discotic liquid crystals: study of metalloporphyrin tapes. <i>Chemical Communications</i> , 2021 , 57, 1206-1209	5.8	1
9	Organic fluorophores that emit ultraviolet light in the aggregated state. <i>Aggregate</i> ,	22.9	1
8	Nanowires for Renewable Energy. <i>Springer Briefs in Molecular Science</i> , 2015 , 53-67	0.6	
7	Charge Carrier Mobility: Unraveling Unprecedented Charge Carrier Mobility through Structure Property Relationship of Four Isomers of Didodecyl[1]benzothieno[3,2-b][1]benzothiophene (Adv. Mater. 33/2016). <i>Advanced Materials</i> , 2016 , 28, 7291-7291	24	

6	Titelbild: Photoinduzierte Erzeugung von Ladungsträgern in epitaktischen MOF-Dünnschichten: hohe Leistung aufgrund einer indirekten elektronischen Bandlücke? (Angew. Chem. 25/2015). <i>Angewandte Chemie</i> , 2015 , 127, 7307-7307	3.6
5	Oriented Nanowire Arrays with Phthalocyanine [C60 Multi-Heterojunctions. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2021 , 34, 167-174	0.7
4	Charge Carrier Mobility of 1,6-Dibromopyrene Single Crystal Grown by Solution Method on Substrate. <i>Journal of Electronic Materials</i> , 2022 , 51, 813	1.9
3	Stimuli-Responsive Nanomaterials. <i>Springer Briefs in Molecular Science</i> , 2015 , 41-52	0.6
2	Single-Particle Triggered Polymerization. <i>Springer Briefs in Molecular Science</i> , 2015 , 69-74	0.6
1	Switchable Amplified Spontaneous Emission: Electrically Switchable Amplified Spontaneous Emission from Liquid Crystalline Phase of an AIEE-Active ESIPT Molecule (Advanced Optical Materials 14/2020). <i>Advanced Optical Materials</i> , 2020 , 8, 2070056	8.1