

# Tsuneaki Sakurai

## List of Publications by Year in descending order

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113  
papers

6,508  
citations

185998

28  
h-index

64668

79  
g-index

123  
all docs

123  
docs citations

123  
times ranked

9224  
citing authors

#	ARTICLE	IF	CITATIONS
1	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, 9966-9970.	3.3	1,725
2	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, 12321-12325.	3.3	1,283
3	Control over differentiation of a metastable supramolecular assembly in one and two dimensions. <i>Nature Chemistry</i> , 2017, 9, 493-499.	6.6	408
4	Rational design of crystalline supermicroporous covalent organic frameworks with triangular topologies. <i>Nature Communications</i> , 2015, 6, 7786.	5.8	274
5	Electron delocalization and charge mobility as a function of reduction in a metal-organic framework. <i>Nature Materials</i> , 2018, 17, 625-632.	13.3	255
6	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, 7441-7445.	7.2	206
7	Two-Dimensional Tetrathiafulvalene Covalent Organic Frameworks: Towards Latticed Conductive Organic Salts. <i>Chemistry - A European Journal</i> , 2014, 20, 14608-14613.	1.7	147
8	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, 7106-7114.	11.1	138
9	Charge carrier mobility in organic molecular materials probed by electromagnetic waves. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 11093-11113.	1.3	130
10	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, 13812-13813.	6.6	101
11	Electron- or Hole-Transporting Nature Selected by Side-Chain-Directed $\pi$ -Stacking Geometry: Liquid Crystalline Fused Metalloporphyrin Dimers. <i>Journal of the American Chemical Society</i> , 2011, 133, 6537-6540.	6.6	79
12	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.	5.2	75
13	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, 18268-18271.	6.6	71
14	Cation Modules as Building Blocks Forming Supramolecular Assemblies with Planar Receptor-Anion Complexes. <i>Journal of the American Chemical Society</i> , 2013, 135, 1284-1287.	6.6	63
15	Ion-Based Materials Derived from Positively and Negatively Charged Chloride Complexes of $\pi$ -Conjugated Molecules. <i>Journal of the American Chemical Society</i> , 2013, 135, 14797-14805.	6.6	63
16	Ultra-fast single-crystal polymerization of large-sized covalent organic frameworks. <i>Nature Communications</i> , 2021, 12, 5077.	5.8	63
17	Observation of dissociative quasi-free electron attachment to nucleoside via excited anion radical in solution. <i>Nature Communications</i> , 2019, 10, 102.	5.8	55
18	Semiconducting Nanotubes by Intrachain Folding Following Macroscopic Assembly of a Naphthalene-Diimide (NDI) Appended Polyurethane. <i>Macromolecules</i> , 2015, 48, 879-888.	2.2	52

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19	Topologically Directed Assemblies of Semiconducting Sphere-Rod Conjugates. <i>Journal of the American Chemical Society</i> , 2017, 139, 18616-18622.	6.6	51
20	Functional Sulfur-Doped Buckybowls and Their Concave-Convex Supramolecular Assembly with Fullerenes. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 13047-13051.	7.2	50
21	Anomalous Photoinduced Hole Transport in Type I Core/Mesoporous-Shell Nanocrystals for Efficient Photocatalytic H <sub>2</sub> Evolution. <i>ACS Nano</i> , 2019, 13, 8356-8363.	7.3	44
22	Ion-Pairing Assemblies Based on Pentacyano-Substituted Cyclopentadienide as a Electronic Anion. <i>Chemistry - A European Journal</i> , 2016, 22, 7843-7850.	1.7	43
23	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.	1.6	37
24	Electron Systems That Form Planar and Interlocked Anion Complexes and Their Ion-Pairing Assemblies. <i>Chemistry - A European Journal</i> , 2016, 22, 626-638.	1.7	37
25	The reductive aromatization of naphthalene diimide: a versatile platform for 2,7-diazapyrenes. <i>Chemical Communications</i> , 2018, 54, 5177-5180.	2.2	36
26	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.	2.1	31
27	Optical and Structural Properties of ES IPT Inspired HBT-Fluorene Molecular Aggregates and Liquid Crystals. <i>Journal of Physical Chemistry B</i> , 2017, 121, 10407-10416.	1.2	30
28	Corannulene-Fused Anion-Responsive Conjugated Molecules that Form Self-Assemblies with Unique Electronic Properties. <i>Chemistry - an Asian Journal</i> , 2013, 8, 2088-2095.	1.7	29
29	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.	1.7	29
30	Highly Fluorescent Liquid Crystals from Excited-State Intramolecular Proton Transfer Molecules. <i>Advanced Optical Materials</i> , 2019, 7, 1801349.	3.6	27
31	Repeat protein scaffolds: ordering photo- and electroactive molecules in solution and solid state. <i>Chemical Science</i> , 2016, 7, 4842-4847.	3.7	26
32	Fusing Porphyrins and Phospholes: Synthesis and Analysis of a Phosphorus-Containing Porphyrin. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 12311-12315.	7.2	26
33	Toward Bioelectronic Nanomaterials: Photoconductivity in Protein-Porphyrin Hybrids Wrapped around SWCNT. <i>Advanced Functional Materials</i> , 2018, 28, 1704031.	7.8	25
34	Toward Ultralow-Bandgap Liquid Crystalline Semiconductors: Use of Triply Fused Metalloporphyrin Trimer-Pentamer as Extra-Large Extended Mesogenic Motifs. <i>Chemistry - A European Journal</i> , 2012, 18, 10554-10561.	1.7	24
35	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, .	1.5	24
36	Ion-based assemblies of planar anion complexes and cationic Pt <sup>II</sup> complexes. <i>Chemical Communications</i> , 2014, 50, 10615-10618.	2.2	23

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37	Solvent switchable nanostructures and the function of a $\pi$ -amphiphile. <i>Nanoscale</i> , 2018, 10, 3272-3280.	2.8	23
38	Pressure Modulation of Backbone Conformation and Intermolecular Distance of Conjugated Polymers Toward Understanding the Dynamism of $\pi$ -Figuration of their Conjugated System. <i>Journal of Physical Chemistry B</i> , 2015, 119, 7219-7230.	1.2	22
39	Cold Crystallization of Ferrocene-Hinged $\pi$ -Conjugated Molecule Induced by the Limited Conformational Freedom of Ferrocene. <i>Journal of Physical Chemistry B</i> , 2019, 123, 8325-8332.	1.2	22
40	Ultrathin Two Dimensional (2D) Supramolecular Assembly and Anisotropic Conductivity of an Amphiphilic Naphthalene-Diimide. <i>Langmuir</i> , 2020, 36, 13096-13103.	1.6	22
41	Complex permittivity analysis revisited: Microwave spectroscopy of organic semiconductors with resonant cavity. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	21
42	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.	1.3	20
43	Electrically Switchable Amplified Spontaneous Emission from Liquid Crystalline Phase of an AIE-Active ES IPT Molecule. <i>Advanced Optical Materials</i> , 2020, 8, 1902158.	3.6	20
44	Assembled Structures of Anion-Responsive $\pi$ -Systems Tunable by Alkyl/Perfluoroalkyl Segments in Peripheral Side Chains. <i>Chemistry of Materials</i> , 2013, 25, 2656-2662.	3.2	19
45	Preferential formation of columnar mesophases via peripheral modification of discotic $\pi$ -systems with immiscible side chain pairs. <i>Journal of Materials Chemistry C</i> , 2016, 4, 1490-1496.	2.7	19
46	AIE Active Carbazole-Benzothiazole Based ES IPT Motifs: Positional Isomers Directing the Optical and Electronic Properties. <i>ChemistrySelect</i> , 2017, 2, 1959-1966.	0.7	19
47	Metal-Free Organic Luminophores that Exhibit Dual Fluorescence and Phosphorescence Emission at Room Temperature. <i>ChemPlusChem</i> , 2021, 86, 446-459.	1.3	19
48	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, 14673-14681.	2.8	18
49	Organic fluorophores that emit ultraviolet light in the aggregated state. <i>Aggregate</i> , 2022, 3, .	5.2	18
50	Functional Sulfur-Doped Buckybowls and Their Concave-Convex Supramolecular Assembly with Fullerenes. <i>Angewandte Chemie</i> , 2016, 128, 13241-13245.	1.6	17
51	Ion-Pair-Based Assemblies Comprising Pyrrole-Pyrazole Hybrids. <i>Chemistry - A European Journal</i> , 2013, 19, 9224-9233.	1.7	16
52	Donor/Acceptor Segregated $\pi$ -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.	2.2	16
53	Electron-transporting foldable alternating copolymers of perylenediimide and flexible macromolecular chains. <i>Materials Chemistry Frontiers</i> , 2018, 2, 718-729.	3.2	16
54	Relaxation of Plasma Carriers in Graphene: An Approach by Frequency-Dependent Optical Conductivity Measurement. <i>Advanced Optical Materials</i> , 2018, 6, 1701402.	3.6	16

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55	Evaluation of the intrinsic charge carrier transporting properties of linear- and bent-shaped $\pi$ -extended benzo-fused thieno[3,2-b]thiophenes. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 9624-9628.	1.3	15
56	Frustrated Layered Self-Assembly Induced Superlattice from Two-Dimensional Nanosheets. <i>Nano Letters</i> , 2020, 20, 8647-8653.	4.5	15
57	Supramolecular Chirality Issues in Unorthodox Naphthalene Diimide Gelators. <i>Chemistry - A European Journal</i> , 2018, 24, 1938-1946.	1.7	15
58	Towards Macroscopically Anisotropic Functionality: Oriented Metallo-supramolecular Polymeric Materials Induced by Magnetic Fields. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 1923-1928.	7.2	14
59	Formation Of Nanowires From Pentacene Derivatives By Single-particle Triggered Linear Polymerization. <i>Advanced Materials Letters</i> , 2015, 6, 99-103.	0.3	14
60	Reversible Control of Radius and Morphology of Fluorene-Azobenzene Copolymer Nanowires by Light Exposure. <i>Advanced Materials Interfaces</i> , 2015, 2, 1400450.	1.9	12
61	Cyclobuteno[60]fullerenes as Efficient n-type Organic Semiconductors. <i>Chemistry - A European Journal</i> , 2016, 22, 13627-13631.	1.7	11
62	Highly Miscible Hybrid Liquid-Crystal Systems Containing Fluorescent Excited-State Intramolecular Proton Transfer Molecules. <i>Langmuir</i> , 2019, 35, 14031-14041.	1.6	11
63	Pluripotent Features of Doubly Thiophene-Fused Benzodiphospholes as Organic Functional Materials. <i>Chemistry - A European Journal</i> , 2019, 25, 6425-6438.	1.7	11
64	Protein-directed crystalline 2D fullerene assemblies. <i>Nanoscale</i> , 2020, 12, 3614-3622.	2.8	11
65	Ion-Free and Ion-Pairing Assemblies of Anion-Responsive $\pi$ -Electronic Systems Possessing Directly Linked Alkyl Chains. <i>Chemistry - an Asian Journal</i> , 2016, 11, 2025-2029.	1.7	10
66	Formation of nanowires via single particle-triggered linear polymerization of solid-state aromatic molecules. <i>Nanoscale</i> , 2016, 8, 14925-14931.	2.8	10
67	Porphyrim Nanowire Bundles for Efficient Photoconductivity, Photoemission, and Generation of Singlet Oxygens toward Photodynamic Therapy. <i>ACS Applied Nano Materials</i> , 2020, 3, 6043-6053.	2.4	10
68	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.	0.7	10
69	Towards Macroscopically Anisotropic Functionality: Oriented Metallo-supramolecular Polymeric Materials Induced by Magnetic Fields. <i>Angewandte Chemie</i> , 2021, 133, 1951-1956.	1.6	10
70	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.	1.0	10
71	Fabrication of "Clickable" Polyfluorene Nanowires with High Aspect Ratio as Biological Sensing Platforms. <i>ACS Sensors</i> , 2016, 1, 766-774.	4.0	9
72	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.	1.6	9

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73	Peripherally Cyanated Subphthalocyanines as Potential n-Type Organic Semiconductors. Chemistry - A European Journal, 2018, 24, 8331-8342.	1.7	9
74	Conjugated Nanowire Sensors via High-Energy Single-Particle-Induced Linear Polymerization of 9,9-Di- <i>H</i> -Spiro[9,9]fluorene] Derivatives. Journal of Physical Chemistry B, 2018, 122, 8614-8623.	1.2	9
75	Carboxylate-Driven Supramolecular Assemblies of Protonated <i>meso</i> -Aryl-Substituted Dipyrrylpyrazoles. Chemistry - A European Journal, 2015, 21, 9520-9527.	1.7	8
76	In-situ analysis of microwave conductivity and impedance spectroscopy for evaluation of charge carrier dynamics at interfaces. Applied Physics Letters, 2017, 111, .	1.5	8
77	Extended conjugation of ESIPT-type dopants in nematic liquid crystalline phase for enhancing fluorescence efficiency and anisotropy. Physical Chemistry Chemical Physics, 2020, 22, 28393-28400.	1.3	8
78	Naphthalenediimide (NDI)-Conjugated Foldable Polyurethanes: Impact of Chromophoric Location on Hierarchical Supramolecular Assembly and Conductivity. ChemNanoMat, 2018, 4, 860-866.	1.5	7
79	Stabilization of Charge Carriers in Picket-Fence Polythiophenes Using Dielectric Side Chains. Chemistry - an Asian Journal, 2016, 11, 2284-2290.	1.7	6
80	Fusing Porphyrins and Phospholes: Synthesis and Analysis of a Phosphorus-Containing Porphyrin. Angewandte Chemie, 2016, 128, 12499-12503.	1.6	6
81	Remarkable effect of halogenation of aromatic compounds on efficiency of nanowire formation through polymerization/crosslinking by high-energy single particle irradiation. Radiation Physics and Chemistry, 2018, 142, 100-106.	1.4	6
82	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. Macromolecules, 2019, 52, 4916-4925.	2.2	6
83	Effect of fluorine atoms in flexible chains on the phase transitions and photophysical behavior of A-type 4-alkoxy-4-cyanodiphenylacetylene. Molecular Systems Design and Engineering, 2022, 7, 720-724.	1.7	6
84	Intrinsic Charge Carrier Mobilities at Insulator-Semiconductor Interfaces Probed by Microwave-based Techniques: Studies with Liquid Crystalline Organic Semiconductors. Chemistry Letters, 2015, 44, 1401-1403.	0.7	5
85	Interactions of Single Particle with Organic Matters: A Facile Bottom-Up Approach to Low Dimensional Nanostructures. Quantum Beam Science, 2020, 4, 7.	0.6	5
86	Efficient Emission of Ultraviolet Light by Solid State Organic Fluorophores: Synthesis and Characterization of 1,4-Dialkenyl-2,5-dioxybenzenes. Chemistry - A European Journal, 2021, 27, 1626-1637.	1.7	5
87	Ubiquitous organic molecule-based free-standing nanowires with ultra-high aspect ratios. Nature Communications, 2021, 12, 4025.	5.8	5
88	Acoustic characteristics of PMMA in the steady stress-strain state investigated by coherent Brillouin scattering method. Journal of Applied Polymer Science, 2000, 76, 978-986.	1.3	4
89	Side Chain-Directed Assembly of Large Discotic $\pi$ -Conjugated Molecules: Toward Tuning and Stabilization of Mesophases. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2015, 28, 583-587.	0.1	4
90	Systematic studies on side-chain structures of phthalocyaninato-polysiloxanes: Polymerization and self-assembling behaviors. Journal of Porphyrins and Phthalocyanines, 2015, 19, 160-170.	0.4	4

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91	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.	2.2	4
92	Magnetostatic Wave Delay Lines Using the Nonuniformly Magnetized YIG Film. , 0, , .		3
93	2,6-Diphenyl- and -distyryl-capped 3,7-dialkoxybenzo[1,2-b:4,5-b <sup>â€²</sup> ]dithiophenes and their dithieno-annulated higher homologs: structural phase transition with enhanced charge carrier mobility. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 18805.	1.3	3
94	Fabrication of Fluorescent Nanowires via High-Energy Particles-Triggered Polymerization Reactions. <i>Journal of Photopolymer Science and Technology</i> = [Fotoporima Konwakai Shi], 2016, 29, 373-377.	0.1	3
95	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.	0.4	2
96	Study on Segmental Motion and Ion Binding in Polyelectrolyte Solutions by Ultrasonic Spectroscopy. <i>Journal of Solution Chemistry</i> , 2004, 33, 747-760.	0.6	2
97	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
98	Transient Optical-Microwave Spectroscopy for Electron Mobility Assessment in Solids and Gels: A Comprehensive Approach. <i>Journal of Photopolymer Science and Technology</i> = [Fotoporima Konwakai Shi], 2018, 31, 91-99.	0.1	2
99	Peripherally Cyanated Subphthalocyanines as Potential n <sup>â€</sup> -type Organic Semiconductors. <i>Chemistry - A European Journal</i> , 2018, 24, 8244-8244.	1.7	2
100	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.	3.6	2
101	Assembly effect on the charge carrier mobility in quaterthiophene-based n/p-materials. <i>Journal of Materials Chemistry C</i> , 2019, 7, 6649-6655.	2.7	2
102	Highly Efficient Solid-State Intra-Track Polymerization of Ethynyl-Substituted Spirobifluorenes Triggered by Swift Heavy Ion Irradiations. <i>Journal of Photopolymer Science and Technology</i> = [Fotoporima Konwakai Shi], 2020, 33, 91-96.	0.1	2
103	23 <sup>â€</sup> From <sup>â€</sup> Rays <sup>â€</sup> to <sup>â€</sup> Ray <sup>â€</sup> Development of Functional Nanomaterials Using Ion Beams <sup>â€</sup> . <i>Radioisotopes</i> , 2017, 66, 579-585.	0.1	2
104	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.	2.2	1
105	A Particle with High Energy: A Versatile Tool for Nanomaterials. <i>Springer Briefs in Molecular Science</i> , 2015, , 19-26.	0.1	1
106	Nanowires for Renewable Energy. <i>Springer Briefs in Molecular Science</i> , 2015, , 53-67.	0.1	0
107	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.) <i>Tj ETQq1 1 0.784314 rgBT /Over</i>		
108	Switchable Amplified Spontaneous Emission: Electrically Switchable Amplified Spontaneous Emission from Liquid Crystalline Phase of an AIEE <sup>â€</sup> Active ESIPT Molecule (Advanced Optical Materials 14/2020). <i>Advanced Optical Materials</i> , 2020, 8, 2070056.	3.6	0



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109	Frontispiece: Efficient Emission of Ultraviolet Light by Solid State Organic Fluorophores: Synthesis and Characterization of 1,4-Dialkenyl-2,5-dioxybenzenes. Chemistry - A European Journal, 2021, 27, .	1.7	0
110	Stimuli-Responsive Nanomaterials. Springer Briefs in Molecular Science, 2015, , 41-52.	0.1	0
111	Single-Particle Triggered Polymerization. Springer Briefs in Molecular Science, 2015, , 69-74.	0.1	0
112	Oriented Nanowire Arrays with Phthalocyanine $C_{60}$ Multi-Heterojunctions. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2021, 34, 167-174.	0.1	0
113	Charge Carrier Mobility of 1,6-Dibromopyrene Single Crystal Grown by Solution Method on Substrate. Journal of Electronic Materials, 2022, 51, 813-821.	1.0	0