Akinori Saeki

List of Publications by Year in Descending Order

350 papers	13,846 citations	61 h-index	105 g-index
382 ext. papers	15,262 ext. citations	7.2 avg, IF	6.55 L-index

#	Paper	IF	Citations
350	Manipulation of charge carrier flow in BiNbOCl nanoplate photocatalyst with metal loading.. *Chemical Science*, **2022**, 13, 3118-3128	9.4	4
349	A phenothiazine-fused electroactive bilayer helicene: design, synthesis, ACQ-to-AIE transformation and photophysical properties. *Journal of Materials Chemistry C*, **2022**, 10, 5173-5182	7.1	0
348	Synthesis of the C Fragment Buckybowl, Homosumanene, and Heterahomosumanenes via Ring-Expansion Reactions from Sumanenone.. *Journal of Organic Chemistry*, **2022**,	4.2	2
347	Interpenetrated 3D Covalent Organic Frameworks from Distorted Polycyclic Aromatic Hydrocarbons. *Angewandte Chemie - International Edition*, **2021**, 60, 9941-9946	16.4	15
346	Two-step Conformational Control of a Dibenzo Diazacyclooctane Derivative by Stepwise Protonation. *Asian Journal of Organic Chemistry*, **2021**, 10, 1377-1381	3	2
345	Photoconductive Coordination Polymer with a Lead-Sulfur Two-Dimensional Coordination Sheet Structure. *Inorganic Chemistry*, **2021**, 60, 5436-5441	5.1	0
344	Mobility Relaxation of Holes and Electrons in Polymer:Fullerene and Polymer : Non-Fullerene Acceptor Solar Cells. *ChemSusChem*, **2021**, 14, 3528-3534	8.3	2
343	Layered Perovskite Oxyiodide with Narrow Band Gap and Long Lifetime Carriers for Water Splitting Photocatalysis. *Journal of the American Chemical Society*, **2021**, 143, 8446-8453	16.4	19
342	Impact of Sequential Fluorination of Donor and/or Acceptor Polymers on the Efficiency and Morphology of All-Polymer Solar Cells. *ACS Applied Polymer Materials*, **2021**, 3, 2759-2767	4.3	1
341	Electron Beam Irradiation of Lead Halide Perovskite Solar Cells: Dedoping of Organic Hole Transport Materials despite Hardness of the Perovskite Layer. *ACS Applied Materials & Interfaces*, **2021**, 13, 24824-24832	9.5	4
340	Self-Assembled Organic Cations-Assisted Band-Edge Tailoring in Bismuth-Based Perovskites for Enhanced Visible Light Absorption and Photoconductivity. *Journal of Physical Chemistry Letters*, **2021**, 5758-5764	6.4	1
339	Machine Learning: Experiment-Oriented Machine Learning of Polymer:Non-Fullerene Organic Solar Cells (Adv. Funct. Mater. 23/2021). *Advanced Functional Materials*, **2021**, 31, 2170168	15.6	1
338	A hydrogen-bonded organic framework based on redox-active tri(dithiolylidene)cyclohexanetrione. *Chemical Communications*, **2021**, 57, 1157-1160	5.8	2
337	Understanding charge transport in wavy 2D covalent organic frameworks. *Nanoscale*, **2021**, 13, 6829-6837	7.7	6
336	Thiophene-Fused Naphthodiphospholes: Modulation of the Structural and Electronic Properties of Polycyclic Aromatics by Precise Fusion of Heteroles. *ChemPlusChem*, **2021**, 86, 130-136	2.8	2
335	Antisolvent treatment of copper(I) thiocyanate (CuSCN) hole transport layer for efficiency improvements in organic solar cells and light-emitting diodes. *Journal of Materials Chemistry C*, **2021**, 9, 10435-10442	7.1	4
334	Experiment-Oriented Machine Learning of Polymer:Non-Fullerene Organic Solar Cells. *Advanced Functional Materials*, **2021**, 31, 2011168	15.6	16

333	Interpenetrated 3D Covalent Organic Frameworks from Distorted Polycyclic Aromatic Hydrocarbons. *Angewandte Chemie*, **2021**, 133, 10029-10034	3.6	1
332	Microwave and Terahertz Spectroscopy **2021**, 179-200		
331	Redox-Active Tin Metal-Organic Framework with a Thiolate-Based Ligand. *Inorganic Chemistry*, **2021**, 60, 12691-12695	5.1	3
330	Tin(II) thiocyanate Sn(SCN)2 as an ultrathin anode interlayer in organic photovoltaics. *Applied Physics Letters*, **2021**, 119, 063301	3.4	3
329	Machine-Learning-Assisted Selective Synthesis of a Semiconductive Silver Thiolate Coordination Polymer with Segregated Paths for Holes and Electrons. *Angewandte Chemie*, **2021**, 133, 23405	3.6	
328	Machine-Learning-Assisted Selective Synthesis of a Semiconductive Silver Thiolate Coordination Polymer with Segregated Paths for Holes and Electrons. *Angewandte Chemie - International Edition*, **2021**, 60, 23217-23224	16.4	2
327	BiOCl (= Ba, Sr, Ca) with Double and Triple Fluorite Layers for Visible-Light Water Splitting. *Inorganic Chemistry*, **2021**, 60, 15667-15674	5.1	2
326	Mixed lead-tin perovskite films with >7 charge carrier lifetimes realized by maltol post-treatment. *Chemical Science*, **2021**, 12, 13513-13519	9.4	7
325	Conduction Band Control of Oxyhalides with a Triple-Fluorite Layer for Visible Light Photocatalysis. *Journal of the American Chemical Society*, **2021**, 143, 2491-2499	16.4	20
324	A structural parameter to link molecular geometry to macroscopic orientation in discotic liquid crystals: study of metalloporphyrin tapes. *Chemical Communications*, **2021**, 57, 1206-1209	5.8	1
323	Earth-abundant iron(III) species serves as a cocatalyst boosting the multielectron reduction of IO3 redox shuttle in Z-scheme photocatalytic water splitting. *Journal of Materials Chemistry A*, **2021**, 9, 11718-11725	13	3
322	PbBi3O4X3 (X = Cl, Br) with Single/Double Halogen Layers as a Photocatalyst for Visible-Light-Driven Water Splitting: Impact of a Halogen Layer on the Band Structure and Stability. *Chemistry of Materials*, **2021**, 33, 9580-9587	9.6	3
321	Machine Learning-Assisted Development of Organic Solar Cell Materials: Issues, Analyses, and Outlooks.. *Journal of Physical Chemistry Letters*, **2021**, 12, 12391-12401	6.4	6
320	Understanding Hole Extraction of Inverted Perovskite Solar Cells. *ACS Applied Materials & Interfaces*, **2020**, 12, 56068-56075	9.5	6
319	StructureProperty Correlation Study for Organic Photovoltaic Polymer Materials Using Data Science Approach. *Journal of Physical Chemistry C*, **2020**, 124, 12871-12882	3.8	11
318	How the Mixed Cations (Guanidium, Formamidinium, and Phenylethylamine) in Tin Iodide Perovskites Affect Their Charge Carrier Dynamics and Solar Cell Characteristics. *Journal of Physical Chemistry Letters*, **2020**, 11, 4043-4051	6.4	10
317	Near-infrared absorbing pyrrolopyrrole aza-BODIPY-based donorcceptor polymers with reasonable photoresponse. *Journal of Materials Chemistry C*, **2020**, 8, 8770-8776	7.1	8
316	Dibenzoanthradiquinone Building Blocks for the Synthesis of Nitrogenated Polycyclic Aromatic Hydrocarbons. *Organic Letters*, **2020**, 22, 4737-4741	6.2	2

315	Elucidating the Coordination of Diethyl Sulfide Molecules in Copper(I) Thiocyanate (CuSCN) Thin Films and Improving Hole Transport by Antisolvent Treatment. *Advanced Functional Materials*, **2020**, 30, 2002355	15.6	14
314	Coordination of NH2- or COOH-Appended Pt-Porphyrins with CsPbBr3 Perovskite Quantum Dots to Improve a Cascade Process of Two-Photon Absorption and Triplet□Triplet Annihilation. *Journal of Physical Chemistry C*, **2020**, 124, 14439-14445	3.8	3
313	Bismuth-Based Zero-Dimensional Perovskite-like Materials: Effect of Benzylammonium on Dielectric Confinement and Photoconductivity. *Chemistry of Materials*, **2020**, 32, 2647-2652	9.6	11
312	Exploring the Relationship between Effective Mass, Transient Photoconductivity, and Photocatalytic Activity of SrxPb1□BiO2Cl (x = 0□1) Oxyhalides. *Chemistry of Materials*, **2020**, 32, 4166-4173	9.6	12
311	Atom-Varied Side Chains in Conjugated Polymers Affect Efficiencies of Photovoltaic Devices Incorporating Small Molecules. *ACS Applied Polymer Materials*, **2020**, 2, 636-646	4.3	12
310	Semiconductive Nature of Lead-Based Metal-Organic Frameworks with Three-Dimensionally Extended Sulfur Secondary Building Units. *Journal of the American Chemical Society*, **2020**, 142, 27-32	16.4	29
309	Polymerization of Columnar Mesogens Tethered with Diacetylenic Side Chains. *ACS Applied Polymer Materials*, **2020**, 2, 248-255	4.3	6
308	Hydrogen-bonded organic frameworks of twisted polycyclic aromatic hydrocarbon. *Chemical Communications*, **2020**, 56, 13369-13372	5.8	10
307	Modulation of Band Gaps toward Varying Conductivities in Heterometallic One-Dimensional Chains by Ligand Alteration and Third Metal Insertion. *ACS Omega*, **2020**, 5, 30502-30518	3.9	3
306	High Current Density Sn-Based Perovskite Solar Cells via Enhanced Electron Extraction in Nanoporous Electron Transport Layers. *ACS Applied Nano Materials*, **2020**, 3, 11650-11657	5.6	5
305	Optoelectronic and Energy Level Exploration of Bismuth and Antimony-Based Materials for Lead-Free Solar Cells. *Chemistry of Materials*, **2020**, 32, 6416-6424	9.6	15
304	Anisotropic Photoconductivity and Long-Lived Charge Carriers in Bismuth-Based One-Dimensional Perovskite with Type-IIa Band Alignment. *Journal of Physical Chemistry Letters*, **2020**, 11, 6757-6762	6.4	4
303	Evaluation-oriented exploration of photo energy conversion systems: from fundamental optoelectronics and material screening to the combination with data science. *Polymer Journal*, **2020**, 1-15	2.7	22
302	Ag-(Bi, Sb, In, Ga)-I Solar Cells: Impacts of Elemental Composition and Additives on the Charge Carrier Dynamics and Crystal Structures. *ACS Applied Energy Materials*, **2020**, 3, 8224-8232	6.1	3
301	A high throughput molecular screening for organic electronics via machine learning: present status and perspective. *Japanese Journal of Applied Physics*, **2020**, 59, SD0801	1.4	19
300	A Sterically Congested Nitrogenated Benzodipentaphene with a Double □Expanded Helicene Structure. *Organic Letters*, **2020**, 22, 3706-3711	6.2	5
299	Hooking Together Sigmoidal Monomers into Supramolecular Polymers. *Angewandte Chemie - International Edition*, **2019**, 58, 15788-15792	16.4	3
298	A Wavy Two-Dimensional Covalent Organic Framework from Core-Twisted Polycyclic Aromatic Hydrocarbons. *Journal of the American Chemical Society*, **2019**, 141, 14403-14410	16.4	42

297	Regioregularity and Electron Deficiency Control of Unsymmetric Diketopyrrolopyrrole Copolymers for Organic Photovoltaics. *ACS Omega*, **2019**, 4, 15645-15652	3.9	11
296	Soft chromophore featured liquid porphyrins and their utilization toward liquid electret applications. *Nature Communications*, **2019**, 10, 4210	17.4	18
295	Charge transport modulation in pseudorotaxane 1D stacks of acene and azaacene derivatives. *Chemical Science*, **2019**, 10, 2743-2749	9.4	22
294	Enhancing photovoltaic performance by tuning the domain sizes of a small-molecule acceptor by side-chain-engineered polymer donors. *Journal of Materials Chemistry A*, **2019**, 7, 3072-3082	13	46
293	Energy Transfer Dynamics of Highly Stable Fe3+ Doped CsPbCl3 Perovskite Nanocrystals with Dual-Color Emission. *Journal of Physical Chemistry C*, **2019**, 123, 17026-17034	3.8	29
292	Photoconductivity□lifetime Product Correlates Well with the Photocatalytic Activity of Oxyhalides Bi4TaO8Cl and PbBiO2Cl: An Approach to Boost Their O2 Evolution Rates. *ACS Energy Letters*, **2019**, 4, 1572-1578	20.1	21
291	Semiconducting carbon nanotubes as crystal growth templates and grain bridges in perovskite solar cells. *Journal of Materials Chemistry A*, **2019**, 7, 12987-12992	13	44
290	Complex Photoconductivity Reveals How the Nonstoichiometric Sr/Ti Affects the Charge Dynamics of a SrTiO Photocatalyst. *Journal of Physical Chemistry Letters*, **2019**, 10, 1986-1991	6.4	11
289	Band Engineering of Double-Layered Sill□Aurivillius Perovskite Oxychlorides for Visible-Light-Driven Water Splitting. *Chemistry of Materials*, **2019**, 31, 3419-3429	9.6	32
288	Isolation and Characterization of the Unexpected 1- n-Octyloxyperopyrene: A Solution-Processable p-Type Organic Semiconductor. *Journal of Organic Chemistry*, **2019**, 84, 3270-3274	4.2	6
287	Preferential Face-on and Edge-on Orientation of Thiophene Oligomers by Rational Molecular Design. *Chemistry - an Asian Journal*, **2019**, 14, 963-967	4.5	3
286	Flux Synthesis of Layered Oxyhalide BiNbOCl Photocatalyst for Efficient Z-Scheme Water Splitting Under Visible Light. *ACS Applied Materials & Interfaces*, **2019**, 11, 5642-5650	9.5	58
285	Fe/Ru Oxide as a Versatile and Effective Cocatalyst for Boosting Z-Scheme Water-Splitting: Suppressing Undesirable Backward Electron Transfer. *ACS Applied Materials & Interfaces*, **2019**, 11, 45606-45611	9.5	7
284	Hooking Together Sigmoidal Monomers into Supramolecular Polymers. *Angewandte Chemie*, **2019**, 131, 15935-15939	3.6	
283	Comparative Study of Charge Carrier Dynamics in Bismuth-based Dimer and Double Perovskites. *Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]*, **2019**, 32, 735-740	0.7	6
282	Charge Carrier Polarity Modulation in Diketopyrrolopyrrole-Based Low Band Gap Semiconductors by Terminal Functionalization. *ACS Applied Materials & Interfaces*, **2019**, 11, 1088-1095	9.5	13
281	Polychromatic Photoluminescence of Polymorph Boron Dipyrromethene Crystals and Heterostructures. *Journal of Physical Chemistry C*, **2019**, 123, 5061-5066	3.8	2
280	Giant Star-Shaped Nitrogen-Doped Nanographenes. *Angewandte Chemie - International Edition*, **2019**, 58, 552-556	16.4	19

279	Molecular Orientation Change in Naphthalene Diimide Thin Films Induced by Removal of Thermally Cleavable Substituents. *Chemistry of Materials*, **2019**, 31, 1729-1737	9.6	29
278	Significant Enhancement of Hole Transport Ability in Conjugated Polymer/Fullerene Bulk Heterojunction Microspheres. *ACS Applied Polymer Materials*, **2019**, 1, 118-123	4.3	2
277	A Spin-Active, Electrochromic, Solvent-Free Molecular Liquid Based on Double-Decker Lutetium Phthalocyanine Bearing Long Branched Alkyl Chains. *Chemistry - an Asian Journal*, **2018**, 13, 770-774	4.5	15
276	Monodisperse N-Doped Graphene Nanoribbons Reaching 7.7 Nanometers in Length. *Angewandte Chemie*, **2018**, 130, 711-716	3.6	27
275	A Hybrid Organogel of a Low Band Gap Diketopyrrolopyrrole with PC71BM: Phase Separated Morphology and Enhanced Photoconductivity. *ChemNanoMat*, **2018**, 4, 831-836	3.5	10
274	Lithium-Ion Endohedral Fullerene (Li+@C60) Dopants in Stable Perovskite Solar Cells Induce Instant Doping and Anti-Oxidation. *Angewandte Chemie*, **2018**, 130, 4697-4701	3.6	13
273	Lithium-Ion Endohedral Fullerene (Li @C) Dopants in Stable Perovskite Solar Cells Induce Instant Doping and Anti-Oxidation. *Angewandte Chemie - International Edition*, **2018**, 57, 4607-4611	16.4	69
272	Photon Upconversion through a Cascade Process of Two-Photon Absorption in CsPbBr3 and Triplet□Triplet Annihilation in Porphyrin/Diphenylanthracene. *Journal of Physical Chemistry C*, **2018**, 122, 14425-14433	3.8	8
271	Readily Processable Hole-Transporting Peropyrene Gels. *Angewandte Chemie*, **2018**, 130, 8341-8345	3.6	7
270	Computer-Aided Screening of Conjugated Polymers for Organic Solar Cell: Classification by Random Forest. *Journal of Physical Chemistry Letters*, **2018**, 9, 2639-2646	6.4	85
269	Lead-Free Solar Cells based on Tin Halide Perovskite Films with High Coverage and Improved Aggregation. *Angewandte Chemie - International Edition*, **2018**, 57, 13221-13225	16.4	89
268	Lead-Free Solar Cells based on Tin Halide Perovskite Films with High Coverage and Improved Aggregation. *Angewandte Chemie*, **2018**, 130, 13405-13409	3.6	24
267	Anomalous Dielectric Behavior of a Pb/Sn Perovskite: Effect of Trapped Charges on Complex Photoconductivity. *ACS Photonics*, **2018**, 5, 3189-3197	6.3	17
266	Readily Processable Hole-Transporting Peropyrene Gels. *Angewandte Chemie - International Edition*, **2018**, 57, 8209-8213	16.4	15
265	Monodisperse N-Doped Graphene Nanoribbons Reaching 7.7 Nanometers in Length. *Angewandte Chemie - International Edition*, **2018**, 57, 703-708	16.4	50
264	Blackening of aza-BODIPY analogues by simple dimerization: panchromatic absorption of a pyrrolopyrrole aza-BODIPY dimer. *Materials Chemistry Frontiers*, **2018**, 2, 112-120	7.8	27
263	Photoconductivity of Pb-Sn Perovskite Induced by UV Pump and IR Push Pulses. *Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]*, **2018**, 31, 157-162	0.7	4
262	Synthesis, Isolation, and Properties of All Head-to-Tail Cyclic Poly(3-hexylthiophene): Fully Delocalized Exciton over the Defect-Free Ring Polymer. *Macromolecules*, **2018**, 51, 9284-9293	5.5	15

261	Giant Star-Shaped Nitrogen-Doped Nanographenes. *Angewandte Chemie*, **2018**, 131, 562	3.6	
260	Organic photovoltaics of diketopyrrolopyrrole copolymers with unsymmetric and regiorandom configuration of the side units.. *RSC Advances*, **2018**, 8, 30201-30206	3.7	6
259	Solution-Processed BiS Photoresistor Film To Mitigate a Trade-off between Morphology and Electronic Properties. *Journal of Physical Chemistry Letters*, **2018**, 9, 5392-5399	6.4	13
258	Two-step synthesis of Sill□Aurivillius type oxychlorides to enhance their photocatalytic activity for visible-light-induced water splitting. *Journal of Materials Chemistry A*, **2018**, 6, 10909-10917	13	33
257	High-Performance Long-Term-Stable Dopant-Free Perovskite Solar Cells and Additive-Free Organic Solar Cells by Employing Newly Designed Multirole □Conjugated Polymers. *Advanced Materials*, **2017**, 29, 1700183	24	113
256	Thermoresponsive Emission Switching via Lower Critical Solution Temperature Behavior of Organic-Inorganic Perovskite Nanoparticles. *Advanced Materials*, **2017**, 29, 1700047	24	9
255	Synthesis, properties, and crystal structures of □extended double [6]helicenes: contorted multi-dimensional stacking lattice. *Organic and Biomolecular Chemistry*, **2017**, 15, 4697-4703	3.9	44
254	Rotational Energy Barriers and Relaxation Times of the Organic Cation in Cubic Methylammonium Lead/Tin Halide Perovskites from First Principles. *Journal of Physical Chemistry C*, **2017**, 121, 14051-14059	3.8	19
253	A Guide to Design Functional Molecular Liquids with Tailorable Properties using Pyrene-Fluorescence as a Probe. *Scientific Reports*, **2017**, 7, 3416	4.9	46
252	Nanosheets of an Organic Molecular Assembly from Aqueous Medium Exhibit High Solid-State Emission and Anisotropic Charge-Carrier Mobility. *Advanced Materials*, **2017**, 29, 1605408	24	66
251	Accomplishment of Multifunctional □Conjugated Polymers by Regulating the Degree of Side-Chain Fluorination for Efficient Dopant-Free Ambient-Stable Perovskite Solar Cells and Organic Solar Cells. *ACS Applied Materials & Interfaces*, **2017**, 9, 36053-36060	9.5	20
250	Solvent-Coordinated Tin Halide Complexes as Purified Precursors for Tin-Based Perovskites. *ACS Omega*, **2017**, 2, 7016-7021	3.9	61
249	Exploring Alkyl Chains in Benzobisthiazole-Naphthobisthiadiazole Polymers: Impact on Solar-Cell Performance, Crystalline Structures, and Optoelectronics. *ACS Applied Materials & Interfaces*, **2017**, 9, 37702-37711	9.5	19
248	Hole Relaxation in Polymer:Fullerene Solar Cells Examined by the Simultaneous Measurement of Time-of-Flight and Time-Resolved Microwave Conductivity. *Journal of Physical Chemistry C*, **2017**, 121, 18351-18359	3.8	8
247	Highly efficient air-stable/hysteresis-free flexible inverted-type planar perovskite and organic solar cells employing a small molecular organic hole transporting material. *Nano Energy*, **2017**, 41, 10-17	17.1	47
246	Minute-Scale Degradation and Shift of Valence-Band Maxima of (CH3NH3)SnI3 and HC(NH2)2SnI3 Perovskites upon Air Exposure. *Journal of Physical Chemistry C*, **2017**, 121, 19650-19656	3.8	35
245	Funiculosin variants and phosphorylated derivatives promote innate immune responses via the Toll-like receptor 4/myeloid differentiation factor-2 complex. *Journal of Biological Chemistry*, **2017**, 292, 15378-15394	5.4	4
244	Spatial Inhomogeneity of Methylammonium Lead-Mixed Halide Perovskite Examined by Space- and Time-Resolved Microwave Conductivity. *ACS Omega*, **2017**, 2, 8020-8026	3.9	4

243	Fluorinated Benzothienoisoindigo Copolymers for Organic Solar Cells: A Comparative Study on Polymer Orientation and Device Performance. *Chemistry Letters*, **2017**, 46, 1133-1136	1.7	10
242	Facile synthesis of dimeric aza-BODIPY analogues from electron-deficient bislactams and their intriguing optical and electrochemical properties. *Tetrahedron Letters*, **2017**, 58, 3151-3154	2	15
241	Supramolecular Scaffold for Tailoring the Two-Dimensional Assembly of Functional Molecular Units into Organic Thin Films. *Journal of the American Chemical Society*, **2016**, 138, 11727-33	16.4	38
240	Following the TRMC Trail: Optimization of Photovoltaic Efficiency and Structure-Property Correlation of Thiophene Oligomers. *ACS Applied Materials & Interfaces*, **2016**, 8, 25396-404	9.5	8
239	A ternary blend of a polymer, fullerene, and insulating self-assembling triptycene molecules for organic photovolatics. *Journal of Materials Chemistry A*, **2016**, 4, 18490-18498	13	17
238	A gel scaffold for assembling fullerene to photoconducting supramolecular rods. *Science Advances*, **2016**, 2, e1600142	14.3	42
237	Self-assembled polycarbazole microspheres as single-component, white-colour resonant photoemitters. *RSC Advances*, **2016**, 6, 52854-52857	3.7	10
236	Arrangement Modulation of Stacked Columnar Assemblies of Octadehydrodibenzo[12]annulene: Substituent Effects of Peripheral Thienyl and Phenyl Rings. *Crystal Growth and Design*, **2016**, 16, 714-721	3.5	6
235	Synthesis and Optoelectronic Properties of Thiophene-Based Semiconducting Oligomers. *ChemistrySelect*, **2016**, 1, 6872-6879	1.8	
234	Control of Phase Separation of Benzothienoisoindigo-Benzodithiophene Copolymer for Organic Photovoltaics. *Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]*, **2016**, 29, 565-569	0.7	1
233	Insight into the energy loss in organic solar cells based on benzotrithiophene copolymers: A dark current analysis at low temperature. *Japanese Journal of Applied Physics*, **2016**, 55, 022303	1.4	2
232	Fabrication of Clickable Polyfluorene Nanowires with High Aspect Ratio as Biological Sensing Platforms. *ACS Sensors*, **2016**, 1, 766-774	9.2	8
231	Conjugated Polymer Blend Microspheres for Efficient, Long-Range Light Energy Transfer. *ACS Nano* , **2016**, 10, 5543-9	16.7	38
230	Quantifying Hole Transfer Yield from Perovskite to Polymer Layer: Statistical Correlation of Solar Cell Outputs with Kinetic and Energetic Properties. *ACS Photonics*, **2016**, 3, 1678-1688	6.3	44
229	Charge Dynamics at Heterojunction between Face-on/Edge-on PCPDTBT and PCBM Bilayer: Interplay of Donor/Acceptor Distance and Local Charge Carrier Mobility. *Journal of Physical Chemistry C*, **2016**, 120, 17887-17897	3.8	22
228	Pressure Modulation of Backbone Conformation and Intermolecular Distance of Conjugated Polymers Toward Understanding the Dynamism of Figuration of their Conjugated System. *Journal of Physical Chemistry B*, **2015**, 119, 7219-30	3.4	18
227	High-Energy Charged Particles. *Springer Briefs in Molecular Science*, **2015**,	0.6	1
226	Modulation and evaluation of the charge carrier mobility in a polymer alloy of polythiophene and an insulating matrix with an electron accepting molecule. *Polymer Chemistry*, **2015**, 6, 5860-5868	4.9	5

225	p/n-Polarity of thiophene oligomers in photovoltaic cells: role of molecular vs. supramolecular properties. *Physical Chemistry Chemical Physics*, **2015**, 17, 10630-9	3.6	15
224	On the role of local charge carrier mobility in the charge separation mechanism of organic photovoltaics. *Physical Chemistry Chemical Physics*, **2015**, 17, 17778-84	3.6	33
223	Stereochemistry of spiro-acetalized [60]fullerenes: how the exo and endo stereoisomers influence organic solar cell performance. *ACS Applied Materials & Interfaces*, **2015**, 7, 8915-22	9.5	11
222	Molecular engineering of benzothienoisoindigo copolymers allowing highly preferential face-on orientations. *Journal of Materials Chemistry A*, **2015**, 3, 21578-21585	13	18
221	Nanowires for Renewable Energy. *Springer Briefs in Molecular Science*, **2015**, 53-67	0.6	
220	Rational molecular design towards Vis/NIR absorption and fluorescence by using pyrrolopyrrole aza-BODIPY and its highly conjugated structures for organic photovoltaics. *Chemistry - A European Journal*, **2015**, 21, 2893-904	4.8	76
219	Organic donor-acceptor assemblies form coaxial p-n heterojunctions with high photoconductivity. *Angewandte Chemie - International Edition*, **2015**, 54, 946-50	16.4	122
218	New efficient (thio)acetalized fullerene monoadducts for organic solar cells: characterization based on solubility, mobility balance, and dark current. *Journal of Materials Chemistry A*, **2015**, 3, 1152-1157	13	20
217	Spiro-1,3-dioxolanofullerenes with Low-lying LUMO Level for Organic Solar Cells. *Chemistry Letters*, **2015**, 44, 282-284	1.7	10
216	Laser-Induced Carbonization of Sumanene Derivatives: Exposure-Time Dependence of Time-Resolved Microwave Conductivity. *Bulletin of the Chemical Society of Japan*, **2015**, 88, 330-332	5.1	2
215	Study of Photoelectric Conversion in Benzotrithiophene-Based Conjugated Semiconducting Polymers. *Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]*, **2015**, 28, 605-610	0.7	4
214	Reversible Control of Radius and Morphology of Fluorene-Azobenzene Copolymer Nanowires by Light Exposure. *Advanced Materials Interfaces*, **2015**, 2, 1400450	4.6	12
213	Exfoliation of Graphene and Assembly Formation with Alkylated-C60: A Nanocarbon Hybrid towards Photo-Energy Conversion Electrode Devices. *Advanced Optical Materials*, **2015**, 3, 925-930	8.1	9
212	Organic Donor–Acceptor Assemblies form Coaxial p–n Heterojunctions with High Photoconductivity. *Angewandte Chemie*, **2015**, 127, 960-964	3.6	45
211	Hetero Bis-Addition of Spiro-Acetalized or Cyclohexanone Ring to 58-Fullerene Impacts Solubility and Mobility Balance in Polymer Solar Cells. *ACS Applied Materials & Interfaces*, **2015**, 7, 12894-902	9.5	13
210	Hole-Transporting Materials with a Two-Dimensionally Expanded -System around an Azulene Core for Efficient Perovskite Solar Cells. *Journal of the American Chemical Society*, **2015**, 137, 15656-9	16.4	238
209	Synthesis, properties, and semiconducting characteristics of electron-transporting three-dimensional -conjugated compounds containing dicyanomethylene-substituted difluorocyclopenta[b]thiophene. *Journal of Fluorine Chemistry*, **2015**, 174, 75-80	2.1	3
208	Synthesis and self-assembly of phthalocyanine-tethered block copolymers. *Journal of Materials Chemistry C*, **2015**, 3, 2484-2490	7.1	18

207	Unveiling Charge Carrier Transport in π-Conjugated Molecular Wire on Micro- and Macroscopic Scales **2015**, 605-620		2
206	A Particle with High Energy: A Versatile Tool for Nanomaterials. *Springer Briefs in Molecular Science*, **2015**, 19-26	0.6	1
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