Akinori Saeki

List of Publications by Year
in descending order

362	16,755	15495 65	21521 114
papers	citations	h-index	g-index

382	382	382	15685
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Covalent Organic Frameworks with High Charge Carrier Mobility. Chemistry of Materials, 2011, 23, 4094-4097.	3.2	659
2	Photoconductive Coaxial Nanotubes of Molecularly Connected Electron Donor and Acceptor Layers. Science, 2006, 314, 1761-1764.	6.0	642
3	Improved Understanding of the Electronic and Energetic Landscapes of Perovskite Solar Cells: High Local Charge Carrier Mobility, Reduced Recombination, and Extremely Shallow Traps. Journal of the American Chemical Society, 2014, 136, 13818-13825.	6.6	587
4	Conjugated organic framework with three-dimensionally ordered stable structure and delocalized Ï€ clouds. Nature Communications, 2013, 4, 2736.	5.8	528
5	Synthesis of Metallophthalocyanine Covalent Organic Frameworks That Exhibit High Carrier Mobility and Photoconductivity. Angewandte Chemie - International Edition, 2011, 50, 1289-1293.	7.2	462
6	Supramolecular Linear Heterojunction Composed of Graphite-Like Semiconducting Nanotubular Segments. Science, 2011, 334, 340-343.	6.0	397
7	Highâ€Rate Chargeâ€Carrier Transport in Porphyrin Covalent Organic Frameworks: Switching from Hole to Electron to Ambipolar Conduction. Angewandte Chemie - International Edition, 2012, 51, 2618-2622.	7.2	344
8	An n-Channel Two-Dimensional Covalent Organic Framework. Journal of the American Chemical Society, 2011, 133, 14510-14513.	6.6	330
9	Comprehensive Approach to Intrinsic Charge Carrier Mobility in Conjugated Organic Molecules, Macromolecules, and Supramolecular Architectures. Accounts of Chemical Research, 2012, 45, 1193-1202.	7.6	318
10	Hole-Transporting Materials with a Two-Dimensionally Expanded Ï€-System around an Azulene Core for Efficient Perovskite Solar Cells. Journal of the American Chemical Society, 2015, 137, 15656-15659.	6.6	271
11	An Ambipolar Conducting Covalent Organic Framework with Selfâ€Sorted and Periodic Electron Donorâ€Acceptor Ordering. Advanced Materials, 2012, 24, 3026-3031.	11.1	258
12	Beyond Fullerenes: Design of Nonfullerene Acceptors for Efficient Organic Photovoltaics. Journal of the American Chemical Society, 2014, 136, 14589-14597.	6.6	213
13	Anisotropic Electron Transport Properties in Sumanene Crystal. Journal of the American Chemical Society, 2009, 131, 408-409.	6.6	200
14	Solventâ€Free Luminescent Organic Liquids. Angewandte Chemie - International Edition, 2012, 51, 3391-3395.	7.2	187
15	Amphiphilic Molecular Design as a Rational Strategy for Tailoring Bicontinuous Electron Donor and Acceptor Arrays: Photoconductive Liquid Crystalline Oligothiopheneâ^'C₆₀ Dyads. Journal of the American Chemical Society, 2008, 130, 8886-8887.	6.6	185
16	Mobility and Dynamics of Charge Carriers in Rubrene Single Crystals Studied by Flashâ€Photolysis Microwave Conductivity and Optical Spectroscopy. Advanced Materials, 2008, 20, 920-923.	11.1	174
17	Solution Phase Epitaxial Self-Assembly and High Charge-Carrier Mobility Nanofibers of Semiconducting Molecular Gelators. Journal of the American Chemical Society, 2010, 132, 8866-8867.	6.6	167
18	Nonvolatile liquid anthracenes for facile full-colour luminescence tuning at single blue-light excitation. Nature Communications, 2013, 4, 1969.	5.8	167

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19	Ambipolar-transporting coaxial nanotubes with a tailored molecular grapheneâ€“fullerene heterojunction. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 21051-21056.	3.3	161
20	Facile Synthesis of Biphenyl-Fused BODIPY and Its Property. Organic Letters, 2012, 14, 866-869.	2.4	144
21	Highâ€Performance Longâ€Termâ€Stable Dopantâ€Free Perovskite Solar Cells and Additiveâ€Free Organic Solar Cells by Employing Newly Designed Multirole Ï€â€Conjugated Polymers. Advanced Materials, 2017, 29, 1700183.	11.1	141
22	Selfâ€Organization of Hydrogenâ€Bonding Naphthalene Chromophores into Jâ€type Nanorings and Hâ€type Nanorods: Impact of Regioisomerism. Angewandte Chemie - International Edition, 2012, 51, 6643-6647.	7.2	140
23	Arylâ^'Perfluoroaryl Substituted Tetracene: Induction of Face-to-Face Ï€â^'Ï€ Stacking and Enhancement of Charge Carrier Properties. Chemistry of Materials, 2011, 23, 1646-1649.	3.2	135
24	Computer-Aided Screening of Conjugated Polymers for Organic Solar Cell: Classification by Random Forest. Journal of Physical Chemistry Letters, 2018, 9, 2639-2646.	2.1	135
25	Organic Donorâ€“Acceptor Assemblies form Coaxial pâ€“n Heterojunctions with High Photoconductivity. Angewandte Chemie - International Edition, 2015, 54, 946-950.	7.2	134
26	Conducting metallophthalocyanine 2D covalent organic frameworks: the role of central metals in controlling Ï€-electronic functions. Chemical Communications, 2012, 48, 8952.	2.2	133
27	Charge carrier mobility in organic molecular materials probed by electromagnetic waves. Physical Chemistry Chemical Physics, 2014, 16, 11093-11113.	1.3	130
28	Modeling and simulation of chemically amplified electron beam, x-ray, and EUV resist processes. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2004, 22, 3489.	1.6	124
29	Segregated and Alternately Stacked Donor/Acceptor Nanodomains in Tubular Morphology Tailored with Zinc Porphyrinâ€“C₆₀ Amphiphilic Dyads: Clear Geometrical Effects on Photoconduction. Journal of the American Chemical Society, 2012, 134, 2524-2527.	6.6	119
30	Chiroselective Assembly of a Chiral Porphyrinâ^'Fullerene Dyad: Photoconductive Nanofiber with a Top-Class Ambipolar Charge-Carrier Mobility. Journal of the American Chemical Society, 2010, 132, 6628-6629.	6.6	118
31	Magnetically Induced Anisotropic Orientation of Graphene Oxide Locked by in Situ Hydrogelation. ACS Nano, 2014, 8, 4640-4649.	7.3	113
32	Leadâ€Free Solar Cells based on Tin Halide Perovskite Films with High Coverage and Improved Aggregation. Angewandte Chemie - International Edition, 2018, 57, 13221-13225.	7.2	111
33	â€œBicontinuous Cubicâ€•Liquid Crystalline Materials from Discotic Molecules: A Special Effect of Paraffinic Side Chains with Ionic Liquid Pendants. Journal of the American Chemical Society, 2009, 131, 17722-17723.	6.6	107
34	Insulated Molecular Wire with Highly Conductive Ï€-Conjugated Polymer Core. Journal of the American Chemical Society, 2009, 131, 18046-18047.	6.6	107
35	Charge-carrier dynamics in polythiophene films studied by in-situ measurement of flash-photolysis time-resolved microwave conductivity (FP-TRMC) and transient optical spectroscopy (TOS). Philosophical Magazine, 2006, 86, 1261-1276.	0.7	106
36	A Versatile Approach to Organic Photovoltaics Evaluation Using White Light Pulse and Microwave Conductivity. Journal of the American Chemical Society, 2012, 134, 19035-19042.	6.6	106

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37	Prominent Electron Transport Property Observed for Triply Fused Metalloporphyrin Dimer: Directed Columnar Liquid Crystalline Assembly by Amphiphilic Molecular Design. Journal of the American Chemical Society, 2008, 130, 13812-13813.	6.6	101
38	Direct Evaluation of Intrinsic Optoelectronic Performance of Organic Photovoltaic Cells with Minimizing Impurity and Degradation Effects. Advanced Energy Materials, 2011, 1, 661-669.	10.2	97
39	Highly Photoconducting Ï€-Stacked Polymer Accommodated in Coordination Nanochannels. Journal of the American Chemical Society, 2012, 134, 8360-8363.	6.6	97
40	Nanosheets of an Organic Molecular Assembly from Aqueous Medium Exhibit High Solidâ€State Emission and Anisotropic Chargeâ€Carrier Mobility. Advanced Materials, 2017, 29, 1605408.	11.1	97
41	A Glass Hook Allows Fishing of Hexa-peri-hexabenzocoronene Graphitic Nanotubes: Fabrication of a Macroscopic Fiber with Anisotropic Electrical Conduction. Advanced Materials, 2006, 18, 1297-1300.	11.1	96
42	Analysis of acid yield generated in chemically amplified electron beam resist. Journal of Vacuum Science & Technology B, 2006, 24, 3055.	1.3	96
43	Molecular Engineering of Coaxial Donorâ"Acceptor Heterojunction by Coassembly of Two Different Hexabenzocoronenes:â€‰ Graphitic Nanotubes with Enhanced Photoconducting Properties. Journal of the American Chemical Society, 2007, 129, 9276-9277.	6.6	96
44	Thienoisoindigo-based low-band gap polymers for organic electronic devices. Polymer Chemistry, 2013, 4, 484-494.	1.9	96
45	Block-Copolymer-Nanowires with Nanosized Domain Segregation and High Charge Mobilities as Stacked p/n Heterojunction Arrays for Repeatable Photocurrent Switching. Journal of the American Chemical Society, 2009, 131, 18030-18031.	6.6	93
46	Directed assembly of optoelectronically active alkylâ€"Ï€-conjugated molecules by adding n-alkanes or Ï€-conjugated species. Nature Chemistry, 2014, 6, 690-696.	6.6	92
47	Lithiumâ€Ion Endohedral Fullerene (Li⁺@C₆₀) Dopants in Stable Perovskite Solar Cells Induce Instant Doping and Antiâ€Oxidation. Angewandte Chemie - International Edition, 2018, 57, 4607-4611.	7.2	89
48	Flux Synthesis of Layered Oxyhalide Bi₄NbO₈Cl Photocatalyst for Efficient Z-Scheme Water Splitting Under Visible Light. ACS Applied Materials & Interfaces, 2019, 11, 5642-5650.	4.0	89
49	Rational Molecular Design towards Vis/NIR Absorption and Fluorescence by using Pyrrolopyrrole azaâ€BODIPY and its Highly Conjugated Structures for Organic Photovoltaics. Chemistry - A European Journal, 2015, 21, 2893-2904.	1.7	88
50	Onâ€Top Ï€â€Stacking of Quasiplanar Molecules in Holeâ€Transporting Materials: Inducing Anisotropic Carrier Mobility in Amorphous Films. Angewandte Chemie - International Edition, 2014, 53, 5800-5804.	7.2	87
51	Monodisperse Nâ€Doped Graphene Nanoribbons Reaching 7.7 Nanometers in Length. Angewandte Chemie - International Edition, 2018, 57, 703-708.	7.2	87
52	Wideâ€Range 2D Lattice Correlation Unveiled for Columnarly Assembled Triphenylene Hexacarboxylic Esters. Angewandte Chemie - International Edition, 2012, 51, 7990-7993.	7.2	86
53	Solvent-Coordinated Tin Halide Complexes as Purified Precursors for Tin-Based Perovskites. ACS Omega, 2017, 2, 7016-7021.	1.6	85
54	Noncovalently Netted, Photoconductive Sheets with Extremely High Carrier Mobility and Conduction Anisotropy from Triphenylene-Fused Metal Trigon Conjugates. Journal of the American Chemical Society, 2009, 131, 7287-7292.	6.6	79

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55	Electron- or Hole-Transporting Nature Selected by Side-Chain-Directed Ï€-Stacking Geometry: Liquid Crystalline Fused Metalloporphyrin Dimers. Journal of the American Chemical Society, 2011, 133, 6537-6540.	6.6	79
56	Superstructureâ€Dependent Optical and Electrical Properties of an Unusual Faceâ€toâ€Face, Ï€â€Stacked, Oneâ€Dimensional Assembly of Dehydrobenzo[12]annulene in the Crystalline State. Chemistry - A European Journal, 2008, 14, 4178-4187.	1.7	75
57	Spherical Assemblies from Ï€-Conjugated Alternating Copolymers: Toward Optoelectronic Colloidal Crystals. Journal of the American Chemical Society, 2013, 135, 870-876.	6.6	75
58	Study on Radiation-Induced Reaction in Microscopic Region for Basic Understanding of Electron Beam Patterning in Lithographic Process (II) â€“Relation between Resist Space Resolution and Space Distribution of Ionic Speciesâ€“. Japanese Journal of Applied Physics, 2002, 41, 4213-4216.	0.8	74
59	Chemical Synthesis of Helicobacter pylori Lipopolysaccharide Partial Structures and their Selective Proinflammatory Responses. Chemistry - A European Journal, 2011, 17, 14464-14474.	1.7	71
60	Propeller-Shaped Fused Oligothiophenes: A Remarkable Effect of the Topology of Sulfur Atoms on Columnar Stacking. Journal of the American Chemical Society, 2013, 135, 18268-18271.	6.6	71
61	Effects of Porphyrin Substituents on Film Structure and Photoelectrochemical Properties of Porphyrin/Fullerene Composite Clusters Electrophoretically Deposited on Nanostructured SnO₂ Electrodes. Chemistry - A European Journal, 2007, 13, 10182-10193.	1.7	70
62	Hexabenzocoronene Graphitic Nanotube Appended with Dithienylethene Pendants: Photochromism for the Modulation of Photoconductivity. Advanced Materials, 2010, 22, 829-832.	11.1	70
63	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.	5.2	68
64	Study of transport properties in fullerene-doped polysilane films using flash photolysis time-resolved microwave technique. Chemical Physics Letters, 2005, 404, 356-360.	1.2	67
65	Crystal structure and carrier transport properties of a new semiconducting 2D coordination polymer with a 3,5-dimethylpiperidine dithiocarbamate ligand. Chemical Communications, 2013, 49, 4316-4318.	2.2	65
66	Ï€â€Interpenetrated 3D Covalent Organic Frameworks from Distorted Polycyclic Aromatic Hydrocarbons. Angewandte Chemie - International Edition, 2021, 60, 9941-9946.	7.2	65
67	Inhomogeneous distribution of crosslinks in ion tracks in polystyrene and polysilanes. Physical Review B, 2004, 70, .	1.1	64
68	A Wavy Two-Dimensional Covalent Organic Framework from Core-Twisted Polycyclic Aromatic Hydrocarbons. Journal of the American Chemical Society, 2019, 141, 14403-14410.	6.6	63
69	Relation between spatial resolution and reaction mechanism of chemically amplified resists for electron beam lithography. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2003, 21, 3149.	1.6	62
70	Subpicosecond Pulse Radiolysis Study of Geminate Ion Recombination in Liquid Benzene. Chemistry Letters, 2003, 32, 834-835.	0.7	62
71	A Guide to Design Functional Molecular Liquids with Tailorable Properties using Pyrene-Fluorescence as a Probe. Scientific Reports, 2017, 7, 3416.	1.6	62
72	Increase in the Mobility of Photogenerated Positive Charge Carriers in Polythiophene. Journal of Physical Chemistry B, 2005, 109, 10015-10019.	1.2	61

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73	Synthesis, properties, and crystal structures of Ï€-extended double [6]helicenes: contorted multi-dimensional stacking lattice. Organic and Biomolecular Chemistry, 2017, 15, 4697-4703.	1.5	61
74	Effect of the Heterointerface on Transport Properties of in Situ Formed MgO/Titanate Heterostructured Nanowires. Journal of the American Chemical Society, 2008, 130, 5378-5382.	6.6	60
75	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.	8.2	59
76	Study on Radiation-Induced Reaction in Microscopic Region for Basic Understanding of Electron Beam Patterning in Lithographic Process (I) â€“Development of Subpicosecond Pulse Radiolysis and Relation between Space Resolution and Radiation-Induced Reactions of Onium Saltâ€“. Japanese Journal of Applied Physics, 2002, 41, 4208-4212.	0.8	57
77	Semiconducting carbon nanotubes as crystal growth templates and grain bridges in perovskite solar cells. Journal of Materials Chemistry A, 2019, 7, 12987-12992.	5.2	57
78	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.	3.2	54
79	Electrodeless Determination of Charge Carrier Mobility in Poly(3-hexylthiophene) Films Incorporating Perylenediimide as Photoconductivity Sensitizer and Spectroscopic Probe. Journal of Physical Chemistry C, 2008, 112, 16643-16650.	1.5	52
80	Conduction Band Control of Oxyhalides with a Triple-Fluorite Layer for Visible Light Photocatalysis. Journal of the American Chemical Society, 2021, 143, 2491-2499.	6.6	52
81	Semiconductive Nature of Lead-Based Metalâ€“Organic Frameworks with Three-Dimensionally Extended Sulfur Secondary Building Units. Journal of the American Chemical Society, 2020, 142, 27-32.	6.6	51
82	Two-step synthesis of SillÃ©nâ€“Aurivillius type oxychlorides to enhance their photocatalytic activity for visible-light-induced water splitting. Journal of Materials Chemistry A, 2018, 6, 10909-10917.	5.2	50
83	Band Engineering of Double-Layered SillÃ©nâ€“Aurivillius Perovskite Oxychlorides for Visible-Light-Driven Water Splitting. Chemistry of Materials, 2019, 31, 3419-3429.	3.2	50
84	Use of Sideâ€Chain Incompatibility for Tailoring Longâ€Range p/n Heterojunctions: Photoconductive Nanofibers Formed by Selfâ€Assembly of an Amphiphilic Donorâ€“Acceptor Dyad Consisting of Oligothiophene and Perylenediimide. Chemistry - an Asian Journal, 2010, 5, 1566-1572.	1.7	49
85	Proton and anion distribution and line edge roughness of chemically amplified electron beam resist. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2005, 23, 2716.	1.6	48
86	Supramolecular Scaffold for Tailoring the Two-Dimensional Assembly of Functional Molecular Units into Organic Thin Films. Journal of the American Chemical Society, 2016, 138, 11727-11733.	6.6	48
87	Intramolecular Charge Carrier Mobility in Fluorene-Thiophene Copolymer Films Studied by Microwave Conductivity. Macromolecules, 2011, 44, 3416-3424.	2.2	47
88	Assembly of carbon nanotubes and alkylated fullerenes: nanocarbon hybrid towards photovoltaic applications. Chemical Science, 2011, 2, 2243.	3.7	47
89	A Ï€-gel scaffold for assembling fullerene to photoconducting supramolecular rods. Science Advances, 2016, 2, e1600142.	4.7	47
90	Conjugated Polymer Blend Microspheres for Efficient, Long-Range Light Energy Transfer. ACS Nano, 2016, 10, 5543-5549.	7.3	46

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91	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.	6.6	46
92	Subpicosecond pulse radiolysis in liquid methyl-substituted benzene derivatives. Radiation Physics and Chemistry, 2007, 76, 818-826.	1.4	45
93	Point Spread Function for the Calculation of Acid Distribution in Chemically Amplified Resists for Extreme Ultraviolet Lithography. Applied Physics Express, 0, 1, 027001.	1.1	45
94	Photogeneration of Charge Carriers and Their Transport Properties in Poly[bis(p-n-butylphenyl)silane]. Journal of Physical Chemistry B, 2005, 109, 20174-20179.	1.2	44
95	p/n Switching of Ambipolar Bithiazoleâ€“Benzothiadiazole-Based Polymers in Photovoltaic Cells. Macromolecules, 2012, 45, 2709-2719.	2.2	44
96	Amphiphilic Design of a Discotic Liquidâ€Crystalline Molecule for Dipole Manipulation: Hierarchical Columnar Assemblies with a 2D Superlattice Structure. Angewandte Chemie - International Edition, 2013, 52, 1031-1034.	7.2	44
97	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.	1.5	44
98	Monodisperse Nâ€Doped Graphene Nanoribbons Reaching 7.7 Nanometers in Length. Angewandte Chemie, 2018, 130, 711-716.	1.6	44
99	A high throughput molecular screening for organic electronics via machine learning: present status and perspective. Japanese Journal of Applied Physics, 2020, 59, SD0801.	0.8	43
100	Evaluation-oriented exploration of photo energy conversion systems: from fundamental optoelectronics and material screening to the combination with data science. Polymer Journal, 2020, 52, 1307-1321.	1.3	43
101	Fullerene nanowires as a versatile platform for organic electronics. Scientific Reports, 2012, 2, 600.	1.6	42
102	Experimentâ€Oriented Machine Learning of Polymer:Nonâ€Fullerene Organic Solar Cells. Advanced Functional Materials, 2021, 31, 2011168.	7.8	42
103	Reactivity between Biphenyl and Precursor of Solvated Electrons in Tetrahydrofuran Measured by Picosecond Pulse Radiolysis in Near-Ultraviolet, Visible, and Infrared. Journal of Physical Chemistry A, 2007, 111, 1229-1235.	1.1	41
104	Supramolecular Engineering of Oligothiophene Nanorods without Insulators: Hierarchical Association of Rosettes and Photovoltaic Properties. Chemistry - A European Journal, 2014, 20, 16128-16137.	1.7	41
105	Frequency-Modulated Gigahertz Complex Conductivity of TiO₂ Nanoparticles: Interplay of Free and Shallowly Trapped Electrons. Journal of Physical Chemistry C, 2014, 118, 22561-22572.	1.5	41
106	Energy Transfer Dynamics of Highly Stable Fe³⁺ Doped CsPbCl₃ Perovskite Nanocrystals with Dual-Color Emission. Journal of Physical Chemistry C, 2019, 123, 17026-17034.	1.5	41
107	Electronic Structure and Optical Properties of Charged Oligofluorenes Studied by VIS/NIR Spectroscopy and Time-Dependent Density Functional Theory. Journal of Physical Chemistry B, 2006, 110, 5984-5993.	1.2	40
108	Electrodeless measurement of charge carrier mobility in pentacene by microwave and optical spectroscopy techniques. Journal of Applied Physics, 2006, 100, 023703.	1.1	40

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109	Blackening of aza-BODIPY analogues by simple dimerization: panchromatic absorption of a pyrrolopyrrole aza-BODIPY dimer. Materials Chemistry Frontiers, 2018, 2, 112-120.	3.2	40
110	Molecular Orientation Change in Naphthalene Diimide Thin Films Induced by Removal of Thermally Cleavable Substituents. Chemistry of Materials, 2019, 31, 1729-1737.	3.2	40
111	Optoelectronic and Energy Level Exploration of Bismuth and Antimony-Based Materials for Lead-Free Solar Cells. Chemistry of Materials, 2020, 32, 6416-6424.	3.2	40
112	Photoconductivity of Self-Assembled Hexabenzocoronene Nanotube: Insight into the Charge Carrier Mobilities on Local and Long-Range Scales. Journal of Physical Chemistry Letters, 2011, 2, 2549-2554.	2.1	39
113	Flowerlike supramolecular architectures assembled from C60 equipped with a pyridine substituent. Chemical Communications, 2010, 46, 8752.	2.2	38
114	Fabrication of enzyme-degradable and size-controlled protein nanowires using single particle nano-fabrication technique. Nature Communications, 2014, 5, 3718.	5.8	38
115	Machine Learning-Assisted Development of Organic Solar Cell Materials: Issues, Analyses, and Outlooks. Journal of Physical Chemistry Letters, 2021, 12, 12391-12401.	2.1	38
116	Line edge roughness of a latent image in post-optical lithography. Nanotechnology, 2006, 17, 1543-1546.	1.3	37
117	Innate immunomodulation by lipophilic termini of lipopolysaccharide; synthesis of lipid As from Porphyromonas gingivalis and other bacteria and their immunomodulative responses. Molecular BioSystems, 2013, 9, 987.	2.9	37
118	Evaluation of Intrinsic Charge Carrier Transport at Insulator-Semiconductor Interfaces Probed by a Non-Contact Microwave-Based Technique. Scientific Reports, 2013, 3, 3182.	1.6	37
119	Giant Starâ€Shaped Nitrogenâ€Doped Nanographenes. Angewandte Chemie - International Edition, 2019, 58, 552-556.	7.2	37
120	Ï€â€Electronâ€Systemâ€Layered Polymer: Throughâ€Space Conjugation and Properties as a Single Molecular Wire. Chemistry - A European Journal, 2012, 18, 4216-4224.	1.7	36
121	Leadâ€Free Solar Cells based on Tin Halide Perovskite Films with High Coverage and Improved Aggregation. Angewandte Chemie, 2018, 130, 13405-13409.	1.6	36
122	Mixed leadâ€“tin perovskite films with >7 Î¼s charge carrier lifetimes realized by maltol post-treatment. Chemical Science, 2021, 12, 13513-13519.	3.7	36
123	Near-Infrared Absorbing Thienoisoindigo-Based Copolymers for Organic Photovoltaics. Journal of Physical Chemistry C, 2013, 117, 26859-26870.	1.5	35
124	Benzobisthiazole as Weak Donor for Improved Photovoltaic Performance: Microwave Conductivity Technique Assisted Molecular Engineering. Advanced Functional Materials, 2014, 24, 28-36.	7.8	35
125	On the role of local charge carrier mobility in the charge separation mechanism of organic photovoltaics. Physical Chemistry Chemical Physics, 2015, 17, 17778-17784.	1.3	35
126	Dynamics of photogenerated charge carrier and morphology dependence in polythiophene films studied by in situ time-resolved microwave conductivity and transient absorption spectroscopy. Journal of Photochemistry and Photobiology A: Chemistry, 2007, 186, 158-165.	2.0	34

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127	Crystal structure and carrier transport properties of a new 3D mixed-valence Cu(<scp>i</scp>)â€“Cu(<scp>ii</scp>) coordination polymer including pyrrolidine dithiocarbamate ligand. Dalton Transactions, 2011, 40, 2218-2224.	1.6	34
128	Synthesis of a head-to-tail-type cyclodextrin-based insulated molecular wire. Chemical Communications, 2011, 47, 6816.	2.2	34
129	Soft chromophore featured liquid porphyrins and their utilization toward liquid electret applications. Nature Communications, 2019, 10, 4210.	5.8	32
130	Development of laser-synchronized picosecond pulse radiolysis system. Radiation Physics and Chemistry, 2001, 60, 313-318.	1.4	31
131	Detection and Distinction of DNT and TNT with a Fluorescent Conjugated Polymer Using the Microwave Conductivity Technique. Journal of Physical Chemistry B, 2012, 116, 10371-10378.	1.2	31
132	Covalent Modular Approach for Dimensionâ€Controlled Selfâ€Organization of Perylene Bisimide Dyes. Chemistry - A European Journal, 2013, 19, 6561-6565.	1.7	31
133	Accomplishment of Multifunctional Ï€-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.	4.0	31
134	Photoconductivityâ€“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.	8.8	31
135	CdSe Nanocrystal/C60-liquid composite material with enhanced photoelectrochemical performance. Journal of Materials Chemistry, 2012, 22, 22370.	6.7	30
136	Electronegative Oligothiophenes Fully Annelated with Hexafluorocyclopentene:â€‰ Synthesis, Properties, and Intrinsic Electron Mobility. Organic Letters, 2008, 10, 1095-1098.	2.4	29
137	Unprecedented High Local Charge-carrier Mobility in P3HT Revealed by Direct and Alternating Current Methods. Chemistry Letters, 2013, 42, 19-21.	0.7	29
138	Study on geminate ion recombination in liquid dodecane using pico- and subpicosecond pulse radiolysis. Radiation Physics and Chemistry, 2001, 60, 319-322.	1.4	28
139	Polymorphism of Dehydrobenzo[14]annulene Possessing Two Methyl Ester Groups in Noncentrosymmetric Positions. Crystal Growth and Design, 2011, 11, 5488-5497.	1.4	28
140	Crystalline Supramolecular Nanofibers Based on Dehydrobenzoannulene Derivatives. Chemistry - A European Journal, 2013, 19, 15366-15377.	1.7	28
141	Correlation between C₃₇ Parameters and Acid Yields in Chemically Amplified Resists upon Exposure to 75 keV Electron Beam. Japanese Journal of Applied Physics, 2009, 48, 06FC05.	0.8	27
142	Polycarbazoles: Relationship between intra- and intermolecular charge carrier transports. Synthetic Metals, 2012, 162, 1713-1721.	2.1	27
143	Boosting photovoltaic performance of a benzobisthiazole based copolymer: a device approach using a zinc oxide electron transport layer. Journal of Materials Chemistry A, 2014, 2, 6075-6080.	5.2	27
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