

Akinori Saeki

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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	Photoconductive coaxial nanotubes of molecularly connected electron donor and acceptor layers. <i>Science</i> , 2006 , 314, 1761-4	33.3	604
349	Covalent Organic Frameworks with High Charge Carrier Mobility. <i>Chemistry of Materials</i> , 2011 , 23, 4094-4097	16.4	524
348	Improved understanding of the electronic and energetic landscapes of perovskite solar cells: high local charge carrier mobility, reduced recombination, and extremely shallow traps. <i>Journal of the American Chemical Society</i> , 2014 , 136, 13818-25	16.4	492
347	Conjugated organic framework with three-dimensionally ordered stable structure and delocalized π -clouds. <i>Nature Communications</i> , 2013 , 4, 2736	17.4	404
346	Synthesis of metallophthalocyanine covalent organic frameworks that exhibit high carrier mobility and photoconductivity. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 1289-93	16.4	391
345	Supramolecular linear heterojunction composed of graphite-like semiconducting nanotubular segments. <i>Science</i> , 2011 , 334, 340-3	33.3	338
344	High-rate charge-carrier transport in porphyrin covalent organic frameworks: switching from hole to electron to ambipolar conduction. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 2618-22	16.4	291
343	Comprehensive approach to intrinsic charge carrier mobility in conjugated organic molecules, macromolecules, and supramolecular architectures. <i>Accounts of Chemical Research</i> , 2012 , 45, 1193-202	24.3	277
342	An n-channel two-dimensional covalent organic framework. <i>Journal of the American Chemical Society</i> , 2011 , 133, 14510-3	16.4	277
341	Hole-Transporting Materials with a Two-Dimensionally Expanded π -System around an Azulene Core for Efficient Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2015 , 137, 15656-9	16.4	238
340	An ambipolar conducting covalent organic framework with self-sorted and periodic electron donor-acceptor ordering. <i>Advanced Materials</i> , 2012 , 24, 3026-31	24	217
339	Beyond fullerenes: design of nonfullerene acceptors for efficient organic photovoltaics. <i>Journal of the American Chemical Society</i> , 2014 , 136, 14589-97	16.4	204
338	Anisotropic electron transport properties in sumanene crystal. <i>Journal of the American Chemical Society</i> , 2009 , 131, 408-9	16.4	185
337	Amphiphilic molecular design as a rational strategy for tailoring bicontinuous electron donor and acceptor arrays: photoconductive liquid crystalline oligothiophene-C60 dyads. <i>Journal of the American Chemical Society</i> , 2008 , 130, 8886-7	16.4	173
336	Mobility and Dynamics of Charge Carriers in Rubrene Single Crystals Studied by Flash-Photolysis Microwave Conductivity and Optical Spectroscopy. <i>Advanced Materials</i> , 2008 , 20, 920-923	24	165
335	Solution phase epitaxial self-assembly and high charge-carrier mobility nanofibers of semiconducting molecular gelators. <i>Journal of the American Chemical Society</i> , 2010 , 132, 8866-7	16.4	158
334	Solvent-free luminescent organic liquids. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 3391-5	16.4	152

333	Ambipolar-transporting coaxial nanotubes with a tailored molecular graphene-fullerene heterojunction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 21051-6	11.5	149
332	Nonvolatile liquid anthracenes for facile full-colour luminescence tuning at single blue-light excitation. <i>Nature Communications</i> , 2013 , 4, 1969	17.4	136
331	Self-organization of hydrogen-bonding naphthalene chromophores into J-type nanorings and H-type nanorods: impact of regioisomerism. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 6643-7	16.4	126
330	Aryl/Perfluoroaryl Substituted Tetracene: Induction of Face-to-Face π -Stacking and Enhancement of Charge Carrier Properties. <i>Chemistry of Materials</i> , 2011 , 23, 1646-1649	9.6	125
329	Facile synthesis of biphenyl-fused BODIPY and its property. <i>Organic Letters</i> , 2012 , 14, 866-9	6.2	124
328	Organic donor-acceptor assemblies form coaxial p-n heterojunctions with high photoconductivity. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 946-50	16.4	122
327	High-Performance Long-Term-Stable Dopant-Free Perovskite Solar Cells and Additive-Free Organic Solar Cells by Employing Newly Designed Multirole π -Conjugated Polymers. <i>Advanced Materials</i> , 2017 , 29, 1700183	24	113
326	Chiroselective assembly of a chiral porphyrin-fullerene dyad: photoconductive nanofiber with a top-class ambipolar charge-carrier mobility. <i>Journal of the American Chemical Society</i> , 2010 , 132, 6628-9	16.4	112
325	Modeling and simulation of chemically amplified electron beam, x-ray, and EUV resist processes. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2004 , 22, 3489		112
324	Conducting metallophthalocyanine 2D covalent organic frameworks: the role of central metals in controlling π -Electronic Functions. <i>Chemical Communications</i> , 2012 , 48, 8952-4	5.8	110
323	Segregated and alternately stacked donor/acceptor nanodomains in tubular morphology tailored with zinc porphyrin-C60 amphiphilic dyads: clear geometrical effects on photoconduction. <i>Journal of the American Chemical Society</i> , 2012 , 134, 2524-7	16.4	110
322	Charge carrier mobility in organic molecular materials probed by electromagnetic waves. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 11093-113	3.6	108
321	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). <i>Philosophical Magazine</i> , 2006 , 86, 1261-1276	1.6	103
320	"Bicontinuous cubic" liquid crystalline materials from discotic molecules: a special effect of paraffinic side chains with ionic liquid pendants. <i>Journal of the American Chemical Society</i> , 2009 , 131, 17722-3	16.4	99
319	Insulated molecular wire with highly conductive π -conjugated polymer core. <i>Journal of the American Chemical Society</i> , 2009 , 131, 18046-7	16.4	97
318	A versatile approach to organic photovoltaics evaluation using white light pulse and microwave conductivity. <i>Journal of the American Chemical Society</i> , 2012 , 134, 19035-42	16.4	96
317	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
316	Highly photoconducting π -stacked polymer accommodated in coordination nanochannels. <i>Journal of the American Chemical Society</i> , 2012 , 134, 8360-3	16.4	92

315	Thienoisindigo-based low-band gap polymers for organic electronic devices. <i>Polymer Chemistry</i> , 2013 , 4, 484-494	4.9	92
314	Block-copolymer-nanowires with nanosized domain segregation and high charge mobilities as stacked p/n heterojunction arrays for repeatable photocurrent switching. <i>Journal of the American Chemical Society</i> , 2009 , 131, 18030-1	16.4	90
313	Lead-Free Solar Cells based on Tin Halide Perovskite Films with High Coverage and Improved Aggregation. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 13221-13225	16.4	89
312	Direct Evaluation of Intrinsic Optoelectronic Performance of Organic Photovoltaic Cells with Minimizing Impurity and Degradation Effects. <i>Advanced Energy Materials</i> , 2011 , 1, 661-669	21.8	89
311	Molecular engineering of coaxial donor-acceptor heterojunction by coassembly of two different hexabenzocoronenes: graphitic nanotubes with enhanced photoconducting properties. <i>Journal of the American Chemical Society</i> , 2007 , 129, 9276-7	16.4	89
310	A Glass Hook Allows Fishing of Hexa-peri-hexabenzocoronene Graphitic Nanotubes: Fabrication of a Macroscopic Fiber with Anisotropic Electrical Conduction. <i>Advanced Materials</i> , 2006 , 18, 1297-1300	24	87
309	High-Rate Charge-Carrier Transport in Porphyrin Covalent Organic Frameworks: Switching from Hole to Electron to Ambipolar Conduction. <i>Angewandte Chemie</i> , 2012 , 124, 2672-2676	3.6	86
308	Analysis of acid yield generated in chemically amplified electron beam resist. <i>Journal of Vacuum Science & Technology B</i> , 2006 , 24, 3055		86
307	Computer-Aided Screening of Conjugated Polymers for Organic Solar Cell: Classification by Random Forest. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 2639-2646	6.4	85
306	Magnetically induced anisotropic orientation of graphene oxide locked by in situ hydrogelation. <i>ACS Nano</i> , 2014 , 8, 4640-9	16.7	85
305	Rational molecular design towards Vis/NIR absorption and fluorescence by using pyrrolopyrrole aza-BODIPY and its highly conjugated structures for organic photovoltaics. <i>Chemistry - A European Journal</i> , 2015 , 21, 2893-904	4.8	76
304	Directed assembly of optoelectronically active alkyl- π -conjugated molecules by adding n-alkanes or π -conjugated species. <i>Nature Chemistry</i> , 2014 , 6, 690-6	17.6	75
303	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
302	On-top π -stacking of quasiplanar molecules in hole-transporting materials: inducing anisotropic carrier mobility in amorphous films. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 5800-4	16.4	70
301	Lithium-Ion Endohedral Fullerene (Li @C ₆₀) Dopants in Stable Perovskite Solar Cells Induce Instant Doping and Anti-Oxidation. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 4607-4611	16.4	69
300	Effects of porphyrin substituents on film structure and photoelectrochemical properties of porphyrin/fullerene composite clusters electrophoretically deposited on nanostructured SnO ₂ electrodes. <i>Chemistry - A European Journal</i> , 2007 , 13, 10182-93	4.8	69
299	Synthesis of Metallophthalocyanine Covalent Organic Frameworks That Exhibit High Carrier Mobility and Photoconductivity. <i>Angewandte Chemie</i> , 2011 , 123, 1325-1329	3.6	68
298	Superstructure-dependent optical and electrical properties of an unusual face-to-face, π -stacked, one-dimensional assembly of dehydrobenzo[12]annulene in the crystalline state. <i>Chemistry - A European Journal</i> , 2008 , 14, 4178-87	4.8	68

297	Noncovalently netted, photoconductive sheets with extremely high carrier mobility and conduction anisotropy from triphenylene-fused metal trigon conjugates. <i>Journal of the American Chemical Society</i> , 2009 , 131, 7287-92	16.4	67
296	Nanosheets of an Organic Molecular Assembly from Aqueous Medium Exhibit High Solid-State Emission and Anisotropic Charge-Carrier Mobility. <i>Advanced Materials</i> , 2017 , 29, 1605408	24	66
295	Spherical assemblies from E-conjugated alternating copolymers: toward optoelectronic colloidal crystals. <i>Journal of the American Chemical Society</i> , 2013 , 135, 870-6	16.4	66
294	Wide-range 2D lattice correlation unveiled for columnarly assembled triphenylene hexacarboxylic esters. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 7990-3	16.4	66
293	Hexabenzocoronene graphitic nanotube appended with dithienylethene pendants: photochromism for the modulation of photoconductivity. <i>Advanced Materials</i> , 2010 , 22, 829-32	24	65
292	Study on Radiation-Induced Reaction in Microscopic Region for Basic Understanding of Electron Beam Patterning in Lithographic Process (II) Relation between Resist Space Resolution and Space Distribution of Ionic Species□ <i>Japanese Journal of Applied Physics</i> , 2002 , 41, 4213-4216	1.4	64
291	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
290	Study of transport properties in fullerene-doped polysilane films using flash photolysis time-resolved microwave technique. <i>Chemical Physics Letters</i> , 2005 , 404, 356-360	2.5	63
289	Solvent-Coordinated Tin Halide Complexes as Purified Precursors for Tin-Based Perovskites. <i>ACS Omega</i> , 2017 , 2, 7016-7021	3.9	61
288	Increase in the mobility of photogenerated positive charge carriers in polythiophene. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 10015-9	3.4	60
287	Inhomogeneous distribution of crosslinks in ion tracks in polystyrene and polysilanes. <i>Physical Review B</i> , 2004 , 70,	3.3	59
286	Flux Synthesis of Layered Oxyhalide BiNbOCl Photocatalyst for Efficient Z-Scheme Water Splitting Under Visible Light. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 5642-5650	9.5	58
285	Subpicosecond Pulse Radiolysis Study of Geminate Ion Recombination in Liquid Benzene. <i>Chemistry Letters</i> , 2003 , 32, 834-835	1.7	58
284	Chemical synthesis of <i>Helicobacter pylori</i> lipopolysaccharide partial structures and their selective proinflammatory responses. <i>Chemistry - A European Journal</i> , 2011 , 17, 14464-74	4.8	56
283	Crystal structure and carrier transport properties of a new semiconducting 2D coordination polymer with a 3,5-dimethylpiperidine dithiocarbamate ligand. <i>Chemical Communications</i> , 2013 , 49, 4316-8	5.8	55
282	Effect of the heterointerface on transport properties of in situ formed MgO/titanate heterostructured nanowires. <i>Journal of the American Chemical Society</i> , 2008 , 130, 5378-82	16.4	55
281	Relation between spatial resolution and reaction mechanism of chemically amplified resists for electron beam lithography. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2003 , 21, 3149		55
280	Study on Radiation-Induced Reaction in Microscopic Region for Basic Understanding of Electron Beam Patterning in Lithographic Process (I) Development of Subpicosecond Pulse Radiolysis and Relation between Space Resolution and Radiation-Induced Reactions of Onium Salt□ <i>Japanese Journal of Applied Physics</i> , 2002 , 41, 4208-4212	1.4	51

279	Monodisperse N-Doped Graphene Nanoribbons Reaching 7.7 Nanometers in Length. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 703-708	16.4	50
278	Electrodeless Determination of Charge Carrier Mobility in Poly(3-hexylthiophene) Films Incorporating Perylenediimide as Photoconductivity Sensitizer and Spectroscopic Probe. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 16643-16650	3.8	49
277	Highly efficient air-stable/hysteresis-free flexible inverted-type planar perovskite and organic solar cells employing a small molecular organic hole transporting material. <i>Nano Energy</i> , 2017 , 41, 10-17	17.1	47
276	Use of side-chain incompatibility for tailoring long-range p/n heterojunctions: photoconductive nanofibers formed by self-assembly of an amphiphilic donor-acceptor dyad consisting of oligothiophene and perylenediimide. <i>Chemistry - an Asian Journal</i> , 2010 , 5, 1566-72	4.5	47
275	A Guide to Design Functional Molecular Liquids with Tailorable Properties using Pyrene-Fluorescence as a Probe. <i>Scientific Reports</i> , 2017 , 7, 3416	4.9	46
274	Enhancing photovoltaic performance by tuning the domain sizes of a small-molecule acceptor by side-chain-engineered polymer donors. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 3072-3082	13	46
273	Organic Donor-Acceptor Assemblies Form Coaxial p/n Heterojunctions with High Photoconductivity. <i>Angewandte Chemie</i> , 2015 , 127, 960-964	3.6	45
272	Assembly of carbon nanotubes and alkylated fullerenes: nanocarbon hybrid towards photovoltaic applications. <i>Chemical Science</i> , 2011 , 2, 2243	9.4	45
271	Synthesis, properties, and crystal structures of [6]helicenes: contorted multi-dimensional stacking lattice. <i>Organic and Biomolecular Chemistry</i> , 2017 , 15, 4697-4703	3.9	44
270	Semiconducting carbon nanotubes as crystal growth templates and grain bridges in perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 12987-12992	13	44
269	Quantifying Hole Transfer Yield from Perovskite to Polymer Layer: Statistical Correlation of Solar Cell Outputs with Kinetic and Energetic Properties. <i>ACS Photonics</i> , 2016 , 3, 1678-1688	6.3	44
268	Intramolecular Charge Carrier Mobility in Fluorene-Thiophene Copolymer Films Studied by Microwave Conductivity. <i>Macromolecules</i> , 2011 , 44, 3416-3424	5.5	43
267	A Wavy Two-Dimensional Covalent Organic Framework from Core-Twisted Polycyclic Aromatic Hydrocarbons. <i>Journal of the American Chemical Society</i> , 2019 , 141, 14403-14410	16.4	42
266	A Gel scaffold for assembling fullerene to photoconducting supramolecular rods. <i>Science Advances</i> , 2016 , 2, e1600142	14.3	42
265	p/n Switching of Ambipolar Bithiazole-Benzothiadiazole-Based Polymers in Photovoltaic Cells. <i>Macromolecules</i> , 2012 , 45, 2709-2719	5.5	42
264	Photogeneration of charge carriers and their transport properties in poly[bis(p-n-butylphenyl)silane]. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 20174-9	3.4	42
263	Subpicosecond pulse radiolysis in liquid methyl-substituted benzene derivatives. <i>Radiation Physics and Chemistry</i> , 2007 , 76, 818-826	2.5	41
262	Proton and anion distribution and line edge roughness of chemically amplified electron beam resist. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2005 , 23, 2716		41

261	Electronic structure and optical properties of charged oligofluorenes studied by VIS/NIR spectroscopy and time-dependent density functional theory. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 5984-93	3.4	39
260	Supramolecular Scaffold for Tailoring the Two-Dimensional Assembly of Functional Molecular Units into Organic Thin Films. <i>Journal of the American Chemical Society</i> , 2016 , 138, 11727-33	16.4	38
259	Flowerlike supramolecular architectures assembled from C60 equipped with a pyridine substituent. <i>Chemical Communications</i> , 2010 , 46, 8752-4	5.8	38
258	Fullerene nanowires as a versatile platform for organic electronics. <i>Scientific Reports</i> , 2012 , 2, 600	4.9	38
257	Conjugated Polymer Blend Microspheres for Efficient, Long-Range Light Energy Transfer. <i>ACS Nano</i> , 2016 , 10, 5543-9	16.7	38
256	Amphiphilic design of a discotic liquid-crystalline molecule for dipole manipulation: hierarchical columnar assemblies with a 2D superlattice structure. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 1031-4	16.4	37
255	Point Spread Function for the Calculation of Acid Distribution in Chemically Amplified Resists for Extreme Ultraviolet Lithography. <i>Applied Physics Express</i> , 2008 , 1, 027001	2.4	37
254	Reactivity between biphenyl and precursor of solvated electrons in tetrahydrofuran measured by picosecond pulse radiolysis in near-ultraviolet, visible, and infrared. <i>Journal of Physical Chemistry A</i> , 2007 , 111, 1229-35	2.8	37
253	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
252	Photoconductivity of Self-Assembled Hexabenzocoronene Nanotube: Insight into the Charge Carrier Mobilities on Local and Long-Range Scales. <i>Journal of Physical Chemistry Letters</i> , 2011 , 2, 2549-2554	6.4	36
251	Supramolecular engineering of oligothiophene nanorods without insulators: hierarchical association of rosettes and photovoltaic properties. <i>Chemistry - A European Journal</i> , 2014 , 20, 16128-37	4.8	35
250	Minute-Scale Degradation and Shift of Valence-Band Maxima of (CH ₃ NH ₃)SnI ₃ and HC(NH ₂) ₂ SnI ₃ Perovskites upon Air Exposure. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 19650-19656	3.8	35
249	Electrodeless measurement of charge carrier mobility in pentacene by microwave and optical spectroscopy techniques. <i>Journal of Applied Physics</i> , 2006 , 100, 023703	2.5	35
248	Frequency-Modulated Gigahertz Complex Conductivity of TiO ₂ Nanoparticles: Interplay of Free and Shallowly Trapped Electrons. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 22561-22572	3.8	34
247	Near-Infrared Absorbing Thienoisindigo-Based Copolymers for Organic Photovoltaics. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 26859-26870	3.8	34
246	Fabrication of enzyme-degradable and size-controlled protein nanowires using single particle nano-fabrication technique. <i>Nature Communications</i> , 2014 , 5, 3718	17.4	34
245	Solvent-Free Luminescent Organic Liquids. <i>Angewandte Chemie</i> , 2012 , 124, 3447-3451	3.6	34
244	Crystal structure and carrier transport properties of a new 3D mixed-valence Cu(I)-Cu(II) coordination polymer including pyrrolidine dithiocarbamate ligand. <i>Dalton Transactions</i> , 2011 , 40, 2218-24	4.3	34

- 243 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
- 242 Synthesis of a head-to-tail-type cyclodextrin-based insulated molecular wire. *Chemical Communications*, **2011**, 47, 6816-8 5.8 33
- 241 Line edge roughness of a latent image in post-optical lithography. *Nanotechnology*, **2006**, 17, 1543-6 3.4 33
- 240 Two-step synthesis of Sillbi-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
- 239 Band Engineering of Double-Layered Sillbi-Aurivillius Perovskite Oxychlorides for Visible-Light-Driven Water Splitting. *Chemistry of Materials*, **2019**, 31, 3419-3429 9.6 32
- 238 Self-Organization of Hydrogen-Bonding Naphthalene Chromophores into J-type Nanorings and H-type Nanorods: Impact of Regioisomerism. *Angewandte Chemie*, **2012**, 124, 6747-6751 3.6 32
- 237 Electron-system-layered polymer: through-space conjugation and properties as a single molecular wire. *Chemistry - A European Journal*, **2012**, 18, 4216-24 4.8 32
- 236 Benzobisthiazole as Weak Donor for Improved Photovoltaic Performance: Microwave Conductivity Technique Assisted Molecular Engineering. *Advanced Functional Materials*, **2014**, 24, 28-36 15.6 31
- 235 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, 987-96 31
- 234 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 4.7 31
- 233 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
- 232 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
- 231 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
- 230 Unprecedented High Local Charge-carrier Mobility in P3HT Revealed by Direct and Alternating Current Methods. *Chemistry Letters*, **2013**, 42, 19-21 1.7 28
- 229 Electronegative oligothiophenes fully annelated with hexafluorocyclopentene: synthesis, properties, and intrinsic electron mobility. *Organic Letters*, **2008**, 10, 1095-8 6.2 28
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- 227 CdSe Nanocrystal/C₆₀-liquid composite material with enhanced photoelectrochemical performance. *Journal of Materials Chemistry*, **2012**, 22, 22370 27
- 226 Detection and distinction of DNT and TNT with a fluorescent conjugated polymer using the microwave conductivity technique. *Journal of Physical Chemistry B*, **2012**, 116, 10371-8 3.4 27

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224	Polymorphism of Dehydrobenzo[14]annulene Possessing Two Methyl Ester Groups in Noncentrosymmetric Positions. <i>Crystal Growth and Design</i> , 2011 , 11, 5488-5497	3.5	27
223	Blackening of aza-BODIPY analogues by simple dimerization: panchromatic absorption of a pyrrolopyrrole aza-BODIPY dimer. <i>Materials Chemistry Frontiers</i> , 2018 , 2, 112-120	7.8	27
222	Boosting photovoltaic performance of a benzobisthiazole based copolymer: a device approach using a zinc oxide electron transport layer. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 6075-6080	13	25
221	Polycarbazoles: Relationship between intra- and intermolecular charge carrier transports. <i>Synthetic Metals</i> , 2012 , 162, 1713-1721	3.6	25
220	Comprehensive Evaluation of Electron Mobility for a Trifluoroacetyl-Terminated Electronegative Conjugated Oligomer. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 17189-17193	3.8	25
219	Lead-Free Solar Cells based on Tin Halide Perovskite Films with High Coverage and Improved Aggregation. <i>Angewandte Chemie</i> , 2018 , 130, 13405-13409	3.6	24
218	Crystalline supramolecular nanofibers based on dehydrobenzoannulene derivatives. <i>Chemistry - A European Journal</i> , 2013 , 19, 15366-77	4.8	24
217	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, 10554-61	4.8	23
216	Synchronization of femtosecond UV-IR laser with electron beam for pulse radiolysis studies. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2005 , 546, 627-633	1.2	23
215	Charge transport modulation in pseudorotaxane 1D stacks of acene and azaacene derivatives. <i>Chemical Science</i> , 2019 , 10, 2743-2749	9.4	22
214	Air-stable n-type organic field-effect transistors based on solution-processable, electronegative oligomers containing dicyanomethylene-substituted cyclopenta[b]thiophene. <i>Chemistry - A European Journal</i> , 2011 , 17, 4750-8	4.8	22
213	Theoretical Study on Difference between Image Quality Formed in Low- and High-Activation-Energy Chemically Amplified Resists. <i>Applied Physics Express</i> , 2008 , 1, 107001	2.4	22
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