

Yutaka Matsuo

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

306
papers

9,609
citations

52
h-index

82
g-index

349
ext. papers

10,455
ext. citations

7.6
avg, IF

6.44
L-index

#	Paper	IF	Citations
306	Multi-Functional MoO ₃ Doping of Carbon-Nanotube Top Electrodes for Highly Transparent and Efficient Semi-Transparent Perovskite Solar Cells. <i>Advanced Materials Interfaces</i> , 2022 , 2101595	4.6	3
305	Scalable eDIPS-based single-walled carbon nanotube films for conductive transparent electrodes in organic solar cells. <i>Applied Physics Express</i> , 2022 , 15, 046505	2.4	0
304	Creation of Highly Efficient and Durable Organic and Perovskite Solar Cells Using Nanocarbon Materials. <i>Bulletin of the Chemical Society of Japan</i> , 2021 , 94, 1080-1089	5.1	10
303	Controlled Removal of Surfactants from Double-Walled Carbon Nanotubes for Stronger p-Doping Effect and Its Demonstration in Perovskite Solar Cells.. <i>Small Methods</i> , 2021 , 5, e2100080	12.8	4
302	One-step direct oxidation of fullerene-fused alkoxy ethers to ketones for evaporable fullerene derivatives. <i>Communications Chemistry</i> , 2021 , 4,	6.3	4
301	Cationic nitrogen-doped graphene as a p-type modifier for high-performance PEDOT:PSS hole transporters in organic solar cells. <i>Japanese Journal of Applied Physics</i> , 2021 , 60, 070902	1.4	2
300	Magnesium diethynylporphyrin derivatives with strong near-infrared absorption for solution-process bulk heterojunction organic solar cells. <i>Journal of Porphyrins and Phthalocyanines</i> , 2021 , 25, 128-134	1.8	0
299	Information-theoretic regularization for learning global features by sequential VAE. <i>Machine Learning</i> , 2021 , 110, 2239-2266	4	1
298	An Adamantane Capsule and its Efficient Uptake of Spherical Guests up to 3 nm in Water.. <i>Journal of the American Chemical Society</i> , 2021 , 143, 21492-21496	16.4	2
297	Modeling Task Uncertainty for Safe Meta-Imitation Learning. <i>Frontiers in Robotics and AI</i> , 2020 , 7, 606361	1.8	0
296	Carbon nanotubes to outperform metal electrodes in perovskite solar cells via dopant engineering and hole-selectivity enhancement. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 11141-11147	13	28
295	MoS ₂ -carbon nanotube heterostructure as efficient hole transporters and conductors in perovskite solar cells. <i>Applied Physics Express</i> , 2020 , 13, 075009	2.4	7
294	Nickel-Catalyzed Deaminative Acylation of Activated Aliphatic Amines with Aromatic Amides via C-N Bond Activation. <i>Organic Letters</i> , 2020 , 22, 950-955	6.2	36
293	Polyaromatic Nanotweezers on Semiconducting Carbon Nanotubes for the Growth and Interfacing of Lead Halide Perovskite Crystal Grains in Solar Cells. <i>Chemistry of Materials</i> , 2020 , 32, 5125-5133	9.6	29
292	Weakly Supervised Learning for Evaluating Road Surface Condition from Wheelchair Driving Data. <i>Information (Switzerland)</i> , 2020 , 11, 2	2.6	3
291	Silicon Solar Cells: Multifunctional Effect of p-Doping, Antireflection, and Encapsulation by Polymeric Acid for High Efficiency and Stable Carbon Nanotube-Based Silicon Solar Cells (Adv. Energy Mater. 1/2020). <i>Advanced Energy Materials</i> , 2020 , 10, 2070005	21.8	1
290	Multifunctional Effect of p-Doping, Antireflection, and Encapsulation by Polymeric Acid for High Efficiency and Stable Carbon Nanotube-Based Silicon Solar Cells. <i>Advanced Energy Materials</i> , 2020 , 10, 1902389	21.8	28

289	Denatured M13 Bacteriophage-Templated Perovskite Solar Cells Exhibiting High Efficiency. <i>Advanced Science</i> , 2020 , 7, 2000782	13.6	15
288	Equilibrium and thermodynamic studies of chromic overcrowded fluorenylidene-acridanes with modified fluorene moieties. <i>Communications Chemistry</i> , 2020 , 3,	6.3	5
287	Solvation-Free Li Lewis Acid Enhancing Reaction: Kinetic Study of [5,6]-Li@PCBM to [6,6]-Li@PCBM. <i>Organic Letters</i> , 2020 , 22, 7239-7243	6.2	4
286	Recent progress in porphyrin- and phthalocyanine-containing perovskite solar cells.. <i>RSC Advances</i> , 2020 , 10, 32678-32689	3.7	21
285	Investigation of charge interaction between fullerene derivatives and single-walled carbon nanotubes. <i>Information Materials</i> , 2019 , 1, 559-570	23.1	15
284	Dialkoxymethano[60]fullerenes as electron acceptors in thin-film organic solar cells. <i>Tetrahedron</i> , 2019 , 75, 130514	2.4	3
283	Highly Selective and Scalable Fullerene-Cation-Mediated Synthesis Accessing Cyclo[60]fullerenes with Five-Membered Carbon Ring and Their Application to Perovskite Solar Cells. <i>Chemistry of Materials</i> , 2019 , 31, 8432-8439	9.6	27
282	Li@C endohedral fullerene as a supraatomic dopant for C electron-transporting layers promoting the efficiency of perovskite solar cells. <i>Chemical Communications</i> , 2019 , 55, 11837-11839	5.8	20
281	Controlled Redox of Lithium-Ion Endohedral Fullerene for Efficient and Stable Metal Electrode-Free Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2019 , 141, 16553-16558	16.4	35
280	Star-shaped magnesium tetraethynylporphyrin bearing four peripheral electron-accepting diketopyrrolopyrrole functionalities for organic solar cells. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 4072-4083	13	17
279	Fluorescein-based fluorescent porous aromatic framework for Fe ³⁺ detection with high sensitivity. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 2327-2332	7.1	53
278	Formation of environmentally stable hole-doped graphene films with instantaneous and high-density carrier doping via a boron-based oxidant. <i>Npj 2D Materials and Applications</i> , 2019 , 3,	8.8	16
277	Polarity engineering of porous aromatic frameworks for specific water contaminant capture. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 2507-2512	13	26
276	High-Performance Solution-Processed Double-Walled Carbon Nanotube Transparent Electrode for Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2019 , 9, 1901204	21.8	64
275	Single-Walled Carbon Nanotubes in Solar Cells. <i>Topics in Current Chemistry Collections</i> , 2019 , 271-298	1.8	15
274	Mechanochromism, Twisted/Folded Structure Determination, and Derivatization of (N-Phenylfluorenylidene)acridane. <i>Angewandte Chemie</i> , 2019 , 131, 8854-8859	3.6	6
273	Synthesis of Benzothieno[60]fullerenes through Fullerenyl Cation Intermediates. <i>Journal of Organic Chemistry</i> , 2019 , 84, 6270-6277	4.2	5
272	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

271	Improved solubility of asymmetric tetraethynylporphyrin derivatives for solution-processed organic solar cells. <i>Organic Electronics</i> , 2019 , 71, 50-57	3.5	5
270	Estimating Spatiotemporal Information from Behavioral Sensing Data of Wheelchair Users by Machine Learning Technologies. <i>Information (Switzerland)</i> , 2019 , 10, 114	2.6	3
269	Stable and Reproducible 2D/3D Formamidinium Lead Iodide Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2019 , 2, 2486-2493	6.1	42
268	Mechanochromism, Twisted/Folded Structure Determination, and Derivatization of (N-Phenylfluorenylidene)acridane. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 8762-8767	16.4	33
267	Effects of optical interference and optimized crystallinity in organic photovoltaic cells with a low-bandgap small molecule fabricated by dry process. <i>Japanese Journal of Applied Physics</i> , 2019 , 58, SBBG12	1.4	
266	Highly soluble C _{2v} -symmetrical fullerene derivatives: efficient synthesis, characterization, and electrochemical study. <i>Organic Chemistry Frontiers</i> , 2019 , 6, 1372-1377	5.2	
265	Synergic Catalysts of Polyoxometalate@Cationic Porous Aromatic Frameworks: Reciprocal Modulation of Both Capture and Conversion Materials. <i>Advanced Materials</i> , 2019 , 31, e1902444	24	30
264	Chemical reduction of Li ⁺ @C ₆₀ by decamethylferrocene to produce neutral Li ⁺ @C ₆₀ . <i>Carbon</i> , 2019 , 153, 467-471	10.4	7
263	Solar Cells: Single-Walled Carbon Nanotubes in Emerging Solar Cells: Synthesis and Electrode Applications (Adv. Energy Mater. 23/2019). <i>Advanced Energy Materials</i> , 2019 , 9, 1970091	21.8	0
262	High-Working-Pressure Sputtering of ZnO for Stable and Efficient Perovskite Solar Cells. <i>ACS Applied Electronic Materials</i> , 2019 , 1, 389-396	4	13
261	Highly Selective Synthesis of Tetrahydronaphthaleno[60]fullerenes via Fullerene-Cation-Mediated Intramolecular Cyclization. <i>Journal of Organic Chemistry</i> , 2019 , 84, 16314-16322	4.2	4
260	Prediction of magnesium tetraethynylporphyrin's solubility by theoretical calculation. <i>Journal of Porphyrins and Phthalocyanines</i> , 2019 , 23, 1144-1148	1.8	2
259	High-yielding Pd(dba) ₃ -CH ₃ -based four-fold Sonogashira coupling with selenophene-conjugated magnesium tetraethynylporphyrin for organic solar cells.. <i>RSC Advances</i> , 2019 , 9, 32562-32572	3.7	2
258	Single-Walled Carbon Nanotubes in Emerging Solar Cells: Synthesis and Electrode Applications. <i>Advanced Energy Materials</i> , 2019 , 9, 1801312	21.8	57
257	Reduced Knoevenagel Reaction of Acetetracylene-1,2-dione with Acceptor Units for Luminescent Tetracene Derivatives. <i>Journal of Organic Chemistry</i> , 2019 , 84, 2339-2345	4.2	6
256	Vapor-Assisted Ex-Situ Doping of Carbon Nanotube toward Efficient and Stable Perovskite Solar Cells. <i>Nano Letters</i> , 2019 , 19, 2223-2230	11.5	43
255	Engineering high-performance and air-stable PBTZT-stat-BDTP-8:PC61BM/PC71BM organic solar cells. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 5746-5751	13	19
254	Anthracene-Based Organic Small-Molecule Electron-Injecting Material for Inverted Organic Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 11810-11817	9.5	6

253	Single-Walled Carbon Nanotubes in Solar Cells. <i>Topics in Current Chemistry</i> , 2018 , 376, 4	7.2	42
252	A helically-twisted ladder based on 9,9'-bifluorenylidene: synthesis, characterization, and carrier-transport properties. <i>Materials Chemistry Frontiers</i> , 2018 , 2, 780-784	7.8	16
251	Carbon-sandwiched perovskite solar cell. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 1382-1389	13	77
250	Lithium-Ion Endohedral Fullerene (Li@C ₆₀) Dopants in Stable Perovskite Solar Cells Induce Instant Doping and Anti-Oxidation. <i>Angewandte Chemie</i> , 2018 , 130, 4697-4701	3.6	13
249	Lithium-Ion Endohedral Fullerene (Li@C) 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
248	Octaalkoxyfullerenes: Widely LUMO-Tunable C-Symmetric Fullerene Derivatives. <i>Journal of Organic Chemistry</i> , 2018 , 83, 10655-10659	4.2	5
247	Magnesium Tetra(phenylethynyl)porphyrin: Stepwise Synthetic Route, Crystal Structures, and Longer Singlet Excited-State Lifetime than Zinc Congener. <i>Chemistry - an Asian Journal</i> , 2018 , 13, 3032-3039	4.5	7
246	Enhanced Electrical Conduction in Anatase TaON via Soft Chemical Lithium Insertion toward Electronics Application. <i>ACS Applied Nano Materials</i> , 2018 , 1, 3981-3985	5.6	2
245	Non-doped and unsorted single-walled carbon nanotubes as carrier-selective, transparent, and conductive electrode for perovskite solar cells. <i>MRS Communications</i> , 2018 , 8, 1058-1063	2.7	10
244	Electronic structure and cohesive energy of silylmethyl fullerene and methanoindene fullerene solids. <i>Japanese Journal of Applied Physics</i> , 2018 , 57, 085102	1.4	
243	Polymeric acid-doped transparent carbon nanotube electrodes for organic solar cells with the longest doping durability. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 14553-14559	13	46
242	Investigation for Energy Levels of an Organic Thin-film Semiconductor by Photoemission Yield Spectroscopy in Air. <i>Bunseki Kagaku</i> , 2018 , 67, 647-651	0.2	
241	A fluorenylidene-acridane that becomes dark in color upon grinding - ground state mechanochromism by conformational change. <i>Chemical Science</i> , 2018 , 9, 475-482	9.4	41
240	Achieving High Efficiency in Solution-Processed Perovskite Solar Cells Using C/C Mixed Fullerenes. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 39590-39598	9.5	45
239	Structure of [60]fullerene with a mobile lithium cation inside. <i>Royal Society Open Science</i> , 2018 , 5, 180333	3.3	13
238	Functionalization of [60]fullerene through fullerene cation intermediates. <i>Chemical Communications</i> , 2018 , 54, 11244-11259	5.8	40
237	Fullerene-Cation-Mediated Noble-Metal-Free Direct Introduction of Functionalized Aryl Groups onto [60]Fullerene. <i>Organic Letters</i> , 2018 , 20, 3372-3376	6.2	27
236	Regioselective acylation and carboxylation of [60]fulleroindoline via electrochemical synthesis. <i>Organic Chemistry Frontiers</i> , 2017 , 4, 603-607	5.2	18

235	Polymer/Fullerene Solar Cells 2017 , 1-21		1
234	Scalable and Solid-State Redox Functionalization of Transparent Single-Walled Carbon Nanotube Films for Highly Efficient and Stable Solar Cells. <i>Advanced Energy Materials</i> , 2017 , 7, 1700449	21.8	48
233	Indium Tin Oxide-Free Small Molecule Organic Solar Cells Using Single-Walled Carbon Nanotube Electrodes. <i>ECS Journal of Solid State Science and Technology</i> , 2017 , 6, M3181-M3184	2	13
232	Crystallographic Structure Determination of Both [5,6]- and [6,6]-Isomers of Lithium-Ion-Containing Diphenylmethano[60]fullerene. <i>Journal of Organic Chemistry</i> , 2017 , 82, 5868-5872	4.2	8
231	Dual Interfacial Modifications Enable High Performance Semitransparent Perovskite Solar Cells with Large Open Circuit Voltage and Fill Factor. <i>Advanced Energy Materials</i> , 2017 , 7, 1602333	21.8	161
230	Fullerene cation-mediated demethylation/cyclization to give 5- and 7-membered cyclo[60]fullerene derivatives. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 2774-2783	13	16
229	An efficient organic solvent-free solution-processing strategy for high-mobility metal chalcogenide film growth. <i>Green Chemistry</i> , 2017 , 19, 946-951	10	7
228	Perovskite Solar Cells Using Carbon Nanotubes Both as Cathode and as Anode. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 25743-25749	3.8	69
227	Comparative density functional theory-density functional tight binding study of fullerene derivatives: effects due to fullerene size, addends, and crystallinity on band structure, charge transport and optical properties. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 28330-28343	3.6	20
226	Substituent effects in magnesium tetraethynylporphyrin with two diketopyrrolopyrrole units for bulk heterojunction organic solar cells. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 23067-23077	13	21
225	Synthesis and Crystal Structure of Li@Fluoreno[60]fullerene: Effect of Encapsulated Lithium Ion on Electrochemistry of Spiroannulated Fullerene. <i>Journal of Organic Chemistry</i> , 2017 , 82, 11631-11635	4.2	4
224	Carbon Nanotubes versus Graphene as Flexible Transparent Electrodes in Inverted Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 5395-5401	6.4	107
223	Highly Conductive and Transparent Large-Area Bilayer Graphene Realized by MoCl Intercalation. <i>Advanced Materials</i> , 2017 , 29, 1702141	24	34
222	Endohedral Lithium-containing Fullerenes 2017 ,		12
221	Regiocontrolled Electrosynthesis of [60]Fullerene Bisadducts: Photovoltaic Performance and Crystal Structures of C ₆₀ -Quinodimethane Bisadducts. <i>Journal of Organic Chemistry</i> , 2017 , 82, 8676-8685 ^{4.2}	4.2	12
220	Structures and properties of Saturn-like complexes composed of oligothiophene macrocycle with methano[60]fullerene and [70]fullerene. <i>Canadian Journal of Chemistry</i> , 2017 , 95, 315-319	0.9	13
219	Learning Feature Representations from Change Dependency Graphs for Defect Prediction 2017 ,		4
218	Chemical Modification of Li ⁺ @C ₆₀ 2017 , 51-88		

217	Synthesis and Characterization of Lithium-Ion-Containing Fullerene 2017 , 25-38		
216	Computational Studies of Li@C60 2017 , 117-128		
215	Photoinduced Electron Transfer in Li+@C60 2017 , 89-104		
214	Neutral Li@C60: A Hydrogen-Like Superatom 2017 , 105-115		
213	Li+@C60 Salts: Crystal Structures and Properties 2017 , 39-49		
212	History of Li@C60 2017 , 15-23		0
211	Enhancement of Low-field Magnetoresistance in Self-Assembled Epitaxial La0.67Ca0.33MnO3:NiO and La0.67Ca0.33MnO3:Co3O4 Composite Films via Polymer-Assisted Deposition. <i>Scientific Reports</i> , 2016 , 6, 26390	4.9	14
210	Room temperature-processed inverted organic solar cells using high working-pressure-sputtered ZnO films. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 18763-18768	13	12
209	Metal-electrode-free Window-like Organic Solar Cells with p-Doped Carbon Nanotube Thin-film Electrodes. <i>Scientific Reports</i> , 2016 , 6, 31348	4.9	55
208	Regio- and stereo-selective intermolecular [2+2] cycloaddition of allenol esters with C leading to alkylidenecyclobutane-annulated fullerenes. <i>Chemical Communications</i> , 2016 , 52, 13175-13178	5.8	27
207	Enhancement of fill factor in air-processed inverted organic solar cells using self-assembled monolayer of fullerene catechol. <i>Japanese Journal of Applied Physics</i> , 2016 , 55, 082301	1.4	1
206	Electrochemical reduction of cationic Li@C to neutral Li@C isolation and characterisation of endohedral [60]fulleride. <i>Chemical Science</i> , 2016 , 7, 5770-5774	9.4	36
205	Stability of diketopyrrolopyrrole small-molecule inverted organic solar cells. <i>Organic Electronics</i> , 2016 , 35, 193-198	3.5	10
204	Enhancement of Open-Circuit Voltage by Using the 58-Bisilylmethyl Fullerenes in Small-Molecule Organic Solar Cells. <i>Chemistry - an Asian Journal</i> , 2016 , 11, 1268-72	4.5	10
203	Multifunctionalization of C70 at the two polar regions with a high regioselectivity via oxazolation and benzylation reactions. <i>Chemical Communications</i> , 2016 , 52, 5710-3	5.8	8
202	Indium-Free Inverted Organic Solar Cells Using Niobium-Doped Titanium Oxide with Integrated Dual Function of Transparent Electrode and Electron Transport Layer. <i>Advanced Electronic Materials</i> , 2016 , 2, 1500341	6.4	6
201	Combining Human Action Sensing of Wheelchair Users and Machine Learning for Autonomous Accessibility Data Collection. <i>IEICE Transactions on Information and Systems</i> , 2016 , E99.D, 1153-1161	0.6	9
200	An Enantiopure Hydrogen-Bonded Octameric Tube: Self-Sorting and Guest-Induced Rearrangement. <i>Angewandte Chemie</i> , 2016 , 128, 216-220	3.6	3

199	An Enantiopure Hydrogen-Bonded Octameric Tube: Self-Sorting and Guest-Induced Rearrangement. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 208-12	16.4	20
198	Interface Engineering of Metal Oxides using Ammonium Anthracene in Inverted Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 29866-29871	9.5	17
197	Direct and Dry Deposited Single-Walled Carbon Nanotube Films Doped with MoO(x) as Electron-Blocking Transparent Electrodes for Flexible Organic Solar Cells. <i>Journal of the American Chemical Society</i> , 2015 , 137, 7982-5	16.4	126
196	Diporphyrin magnesium complex with long-wavelength light absorption for organic solar cells. <i>Journal of Porphyrins and Phthalocyanines</i> , 2015 , 19, 451-458	1.8	6
195	Increased efficiency in small molecule organic solar cells through the use of a 56-Electron acceptor--methano indene fullerene. <i>Scientific Reports</i> , 2015 , 5, 8319	4.9	30
194	Single-Walled Carbon Nanotube Film as Electrode in Indium-Free Planar Heterojunction Perovskite Solar Cells: Investigation of Electron-Blocking Layers and Dopants. <i>Nano Letters</i> , 2015 , 15, 6665-71	11.5	151
193	Fullerene Derivatives for Organic Solar Cells 2015 , 559-573		1
192	Approach to high open-circuit voltage in organic solar cells utilizing a structural change of the oxazolino-C70 derivative. <i>Chemistry - A European Journal</i> , 2015 , 21, 1894-9	4.8	11
191	1,8-Diazabicycloundecene-mediated Separation of Singly Bonded Fullerene Dimer and Application to Facile Preparation of C61H2. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2015 , 23, 259-262	1.8	
190	A V-shaped polyaromatic amphiphile: solubilization of various nanocarbons in water and enhanced photostability. <i>Chemistry - A European Journal</i> , 2015 , 21, 12741-6	4.8	33
189	Vertical phase separation and light-soaking effect improvements by photoactive layer spin coating initiation time control in air-processed inverted organic solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2015 , 140, 335-343	6.4	25
188	Chemical Pathways Connecting Lead(II) Iodide and Perovskite via Polymeric Plumbate(II) Fiber. <i>Journal of the American Chemical Society</i> , 2015 , 137, 15907-14	16.4	180
187	Organic solid solution composed of two structurally similar porphyrins for organic solar cells. <i>Journal of the American Chemical Society</i> , 2015 , 137, 2247-52	16.4	49
186	Multilayered MoS2 nanoflakes bound to carbon nanotubes as electron acceptors in bulk heterojunction inverted organic solar cells. <i>Organic Electronics</i> , 2015 , 17, 275-280	3.5	20
185	Mobility of long-lived fullerene radical in solid state and nonlinear temperature dependence. <i>Journal of the American Chemical Society</i> , 2014 , 136, 3366-9	16.4	19
184	Divergent Synthesis and Tuning of the Electronic Structures of CobaltDithioleneFullerene Complexes for Organic Solar Cells. <i>Organometallics</i> , 2014 , 33, 659-664	3.8	2
183	Ferromagnetic ordering in superatomic solids. <i>Journal of the American Chemical Society</i> , 2014 , 136, 16926-31	16.4	47
182	Electronic infrared light absorption of a tri-palladium complex containing two Eexpanded tetracene ligands. <i>Chemical Science</i> , 2014 , 5, 4888-4894	9.4	8

181	Supramolecular formation of Li(+)-@PCBM fullerene with sulfonated porphyrins and long-lived charge separation. <i>ChemPhysChem</i> , 2014 , 15, 3782-90	3.2	12
180	FeCl ₃ -Mediated Retro-Reactions of Fullerene Derivatives to C ₆₀ . <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2014 , 22, 845-852	1.8	3
179	Acceleration of Tri-Addition to [70]Fullerene by Nanom Black Fullerene Soot. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2014 , 22, 196-201	1.8	
178	Kinetic study of the Diels-Alder reaction of Li+@C ₆₀ with cyclohexadiene: greatly increased reaction rate by encapsulated Li+. <i>Journal of the American Chemical Society</i> , 2014 , 136, 11162-7	16.4	70
177	Air-processed inverted organic solar cells utilizing a 2-aminoethanol-stabilized ZnO nanoparticle electron transport layer that requires no thermal annealing. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 18754-18760	13	29
176	Anion Exchange of Li+@C ₆₀ Salt for Improved Solubility. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2014 , 22, 262-268	1.8	21
175	Direct probing of the structure and electron transfer of fullerene/ferrocene hybrid on Au(111) electrodes by in situ electrochemical STM. <i>Journal of the American Chemical Society</i> , 2014 , 136, 3184-91	16.4	13
174	Exciton diffusion length and charge mobility in donor and acceptor materials in organic photovoltaics: Tetrabenzoporphyrin and silylmethyl[60] fullerene. <i>Chemical Physics Letters</i> , 2014 , 598, 81-85	2.5	13
173	cis-substituted tetraethynylporphyrin derivatives for small molecule organic solar cells. <i>Journal of Physical Organic Chemistry</i> , 2014 , 27, 87-93	2.1	13
172	Friedel-Crafts functionalization of the cyclopentadienyl ligand in buckymetallocenes. <i>Dalton Transactions</i> , 2014 , 43, 7407-12	4.3	6
171	Improvement of Power Conversion Efficiency of Bulk Heterojunction Organic Solar Cells Using New Fullerene-Based Materials. <i>Hyomen Kagaku</i> , 2014 , 35, 603-608		
170	Influence of additives in bulk heterojunction solar cells using magnesium tetraethynylporphyrin with triisopropylsilyl and anthryl substituents. <i>Journal of Porphyrins and Phthalocyanines</i> , 2014 , 18, 735-740	1.8	11
169	Solvent-dependent morphology of thermally converted copper phthalocyanine for solution-processed small molecule organic photovoltaic devices. <i>Organic Electronics</i> , 2014 , 15, 139-143	3.5	10
168	Consumer Trend Prediction System Using Web Mining. <i>Transactions of the Japanese Society for Artificial Intelligence</i> , 2014 , 29, 449-459	0.7	
167	Popularity Prediction for Entities on SNS Using Semantic Relations. <i>Transactions of the Japanese Society for Artificial Intelligence</i> , 2014 , 29, 469-482	0.7	
166	Selective synthesis of Co ₈ S ₁₅ cluster in bowl-shaped template of the pentaaryl[60]fullerene ligand. <i>Journal of the American Chemical Society</i> , 2013 , 135, 10914-7	16.4	5
165	Efficient Diels-Alder addition of cyclopentadiene to lithium ion encapsulated [60]fullerene. <i>Organic Letters</i> , 2013 , 15, 4466-9	6.2	46
164	Small molecule solution-processed bulk heterojunction solar cells with inverted structure using porphyrin donor. <i>Applied Physics Letters</i> , 2013 , 102, 013305	3.4	22

163	Mixture of [60] and [70]PCBM giving morphological stability in organic solar cells. <i>Applied Physics Letters</i> , 2013 , 103, 073306	3.4	42
162	Low-LUMO 56Electron fullerene acceptors bearing electron-withdrawing cyano groups for small-molecule organic solar cells. <i>Organic Electronics</i> , 2013 , 14, 3306-3311	3.5	12
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25	Theoretical Studies on Structures and Aromaticity of Finite-Length Armchair Carbon Nanotubes. <i>Organic Letters</i> , 2003 , 5, 5103-5103	6.2	6
24	Ruthenium(II) Complexes of Pentamethylated [60]Fullerene. Alkyl, Alkynyl, Chloro, Isocyanide, and Phosphine Complexes. <i>Organometallics</i> , 2003 , 22, 2554-2563	3.8	60
23	Synthesis of ferrocene/hydrofullerene hybrid and functionalized bucky ferrocenes. <i>Journal of the American Chemical Society</i> , 2003 , 125, 13974-5	16.4	76
22	Synthesis, structure, and aromaticity of a hoop-shaped cyclic benzenoid [10]cyclophenacene. <i>Journal of the American Chemical Society</i> , 2003 , 125, 2834-5	16.4	166
21	Theoretical studies on structures and aromaticity of finite-length armchair carbon nanotubes. <i>Organic Letters</i> , 2003 , 5, 3181-4	6.2	149
20	Keyword Extraction from a Document using Word Co-occurrence Statistical Information. <i>Transactions of the Japanese Society for Artificial Intelligence</i> , 2002 , 17, 217-223	0.7	17

19	Stacking of conical molecules with a fullerene apex into polar columns in crystals and liquid crystals. <i>Nature</i> , 2002 , 419, 702-5	50.4	367
18	Discovering Emerging Topics from WWW. <i>Journal of Contingencies and Crisis Management</i> , 2002 , 10, 73-81	5.1	9
17	Half-Metallocene 1-Aza-1,3-butadiene Complexes of Tantalum: Auxiliary Ligand Effects on Controlling Coordination Modes of 1-Aza-1,3-butadiene Ligand. <i>Bulletin of the Chemical Society of Japan</i> , 2002 , 75, 1291-1297	5.1	9
16	Hybrid of ferrocene and fullerene. <i>Journal of the American Chemical Society</i> , 2002 , 124, 9354-5	16.4	151
15	Cu(II)-mediated regioselective tri-addition of Grignard reagent to [70]fullerene. Synthesis of indenyl-type metal ligand embedded into graphitic structure. <i>Journal of Materials Chemistry</i> , 2002 , 12, 2109-2115		26
14	Intramolecular Coupling Reaction of 1-Aza-1,3-butadiene Ligand and Iminoacyl Ligand Giving AmidoImido Complexes of Tantalum. <i>Organometallics</i> , 2002 , 21, 138-143	3.8	23
13	Half-Metallocene Tantalum Complexes Bearing Methyl Methacrylate (MMA) and 1,4-Diaza-1,3-diene Ligands as MMA Polymerization Catalysts. <i>Angewandte Chemie</i> , 2001 , 113, 986-988	3.6	2
12	Half-Metallocene Tantalum Complexes Bearing Methyl Methacrylate (MMA) and 1,4-Diaza-1,3-diene Ligands as MMA Polymerization Catalysts. <i>Angewandte Chemie - International Edition</i> , 2001 , 40, 960-962	16.4	38
11	Selective Formation of Homoleptic and Heteroleptic 2,5-Bis(N-aryliminomethyl)pyrrolyl Yttrium Complexes and Their Performance as Initiators of ϵ -Caprolactone Polymerization. <i>Organometallics</i> , 2001 , 20, 3510-3518	3.8	90
10	Transformation of Cost-based Hypothetical Reasoning into Two Continuous Optimization Problems and a Reasoning Method with their Collaboration. <i>Transactions of the Japanese Society for Artificial Intelligence</i> , 2001 , 16, 400-407	0.7	
9	Synthesis and Characterization of Bis(iminopyrrolyl)zirconium Complexes. <i>Chemistry Letters</i> , 2000 , 29, 1114-1115	1.7	46
8	Convenient synthesis of anionic dinuclear ruthenium(II) complexes [NR ₂ H ₂][{RuCl(diphosphine)} ₂ (ECI) ₃] [diphosphine=2,2'-bis(diphenylphosphino)-1,1'-binaphthyl, 2,2'-bis(di(p-tolyl)phosphino)-1,1'-binaphthyl, and 1,2-bis(diphenylphosphino)benzene]: crystal structures of [NR ₂ H ₂][{RuCl(diphosphine)} ₂ (ECI) ₃] (R=H, Me). <i>Journal of Organometallic Chemistry</i> , 2000 , 593-594, 69-76	2.3	34
7	1-Aza-1,3-butadiene complexes of tantalum: preparation and alkylation of TaCl ₂ (η -C ₅ Me ₅)(η -1-aza-1,3-butadiene). <i>Journal of Organometallic Chemistry</i> , 2000 , 593-594, 69-76	2.3	14
6	Unique Complexation of 1,4-Diaza-1,3-butadiene Ligand on Half-Metallocene Fragments of Niobium and Tantalum. <i>Organometallics</i> , 1999 , 18, 1471-1481	3.8	55
5	Polymerization of methyl methacrylate catalyzed by tantalum-diene complexes, Ta(η -C ₅ R ₅)(η -1,3-butadiene) ₂ (R=H and Me), in the presence of cocatalyst AlMe(OC ₆ H ₂ -2,6-(tBu) ₂ -4-Me) ₂ . <i>Proceedings of the Japan Academy Series B: Physical and Biological Sciences</i> , 1998 , 74, 217-220	4	2
4	Oxidative Reaction of 1,5-Dithionibicyclo[3.3.0]octane Bis(trifluoromethanesulfonate) with Diene Complexes of Zirconium and Tantalum: Synthesis of Cp ₂ Zr(OTf) ₂ (thf) and Cp(η -1,3-butadiene)Ta(OTf) ₂ . <i>Chemistry Letters</i> , 1997 , 26, 793-794	1.7	8
3	Nonplanar η - π and Planar η - π -Enediamide Coordinations of 1,4-Di(p-methoxyphenyl)-1,4-diaza-1,3-butadiene (=MeOC ₆ H ₄ -DAD) on Ta(η -C ₅ R ₅) Fragments (R=H, Me): Crystal Structures of TaCl ₂ (η -MeOC ₆ H ₄ -dad)(η -C ₅ H ₅) and Ta(η -MeOC ₆ H ₄ -dad)(η -C ₅ Me ₅)(η -1,3-butadiene). <i>Chemistry Letters</i> , 1997 , 26, 767-768	1.7	30
2	Ligand exchange reactions of a 1,3-butadiene complex of magnesium. <i>Journal of Organometallic Chemistry</i> , 1997 , 545-546, 549-552	2.3	7

1 Cyclophenacene Cut Out of Fullerene59-80

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