Yutaka Matsuo

List of Publications by Year
in descending order

326	11,285	26567 56	45213 90
papers	citations	h-index	g-index

349	349	349	9466
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Columnar Structure in Bulk Heterojunction in Solution-Processable Three-Layered p-i-n Organic Photovoltaic Devices Using Tetrabenzoporphyrin Precursor and Silylmethyl[60]fullerene. Journal of the American Chemical Society, 2009, 131, 16048-16050.	6.6	483
2	Stacking of conical molecules with a fullerene apex into polar columns in crystals and liquid crystals. Nature, 2002, 419, 702-705.	13.7	398
3	Selective Multiaddition of Organocopper Reagents to Fullerenes. Chemical Reviews, 2008, 108, 3016-3028.	23.0	349
4	Chemical Pathways Connecting Lead(II) Iodide and Perovskite via Polymeric Plumbate(II) Fiber. Journal of the American Chemical Society, 2015, 137, 15907-15914.	6.6	223
5	Dual Interfacial Modifications Enable High Performance Semitransparent Perovskite Solar Cells with Large Open Circuit Voltage and Fill Factor. Advanced Energy Materials, 2017, 7, 1602333.	10.2	209
6	Synthesis, Structure, and Aromaticity of a Hoop-Shaped Cyclic Benzenoid [10]Cyclophenacene. Journal of the American Chemical Society, 2003, 125, 2834-2835.	6.6	187
7	Single-Walled Carbon Nanotube Film as Electrode in Indium-Free Planar Heterojunction Perovskite Solar Cells: Investigation of Electron-Blocking Layers and Dopants. Nano Letters, 2015, 15, 6665-6671.	4.5	179
8	A Web Search Engine-Based Approach to Measure Semantic Similarity between Words. IEEE Transactions on Knowledge and Data Engineering, 2011, 23, 977-990.	4.0	169
9	Hybrid of Ferrocene and Fullerene. Journal of the American Chemical Society, 2002, 124, 9354-9355.	6.6	164
10	Theoretical Studies on Structures and Aromaticity of Finite-Length Armchair Carbon Nanotubes. Organic Letters, 2003, 5, 3181-3184.	2.4	158
11	Regioselective Synthesis of 1,4-Di(organo)[60]fullerenes through DMF-assisted Monoaddition of Silylmethyl Grignard Reagents and Subsequent Alkylation Reaction. Journal of the American Chemical Society, 2008, 130, 15429-15436.	6.6	156
12	Direct and Dry Deposited Single-Walled Carbon Nanotube Films Doped with MoO_x as Electron-Blocking Transparent Electrodes for Flexible Organic Solar Cells. Journal of the American Chemical Society, 2015, 137, 7982-7985.	6.6	150
13	Facile Synthesis of Biphenyl-Fused BODIPY and Its Property. Organic Letters, 2012, 14, 866-869.	2.4	144
14	Carbon Nanotubes versus Graphene as Flexible Transparent Electrodes in Inverted Perovskite Solar Cells. Journal of Physical Chemistry Letters, 2017, 8, 5395-5401.	2.1	141
15	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
16	Stacking of Molecules Possessing a Fullerene Apex and a Cup-Shaped Cavity Connected by a Silicon Connection. Journal of the American Chemical Society, 2004, 126, 432-433.	6.6	119
17	Synthesis and Structural, Electrochemical, and Stacking Properties of Conical Molecules Possessing Buckyferrocene on the Apex. Journal of the American Chemical Society, 2006, 128, 9586-9587.	6.6	118
18	A Scalable Synthesis of Methano[60]fullerene and Congeners by the Oxidative Cyclopropanation Reaction of Silylmethylfullerene. Journal of the American Chemical Society, 2011, 133, 8086-8089.	6.6	117

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19	Role of Subsurface Diffusion and Ostwald Ripening in Catalyst Formation for Single-Walled Carbon Nanotube Forest Growth. Journal of the American Chemical Society, 2012, 134, 2148-2153.	6.6	113
20	Design Concept for High-LUMO-level Fullerene Electron-acceptors for Organic Solar Cells. Chemistry Letters, 2012, 41, 754-759.	0.7	111
21	Highâ€Performance Solutionâ€Processed Doubleâ€Walled Carbon Nanotube Transparent Electrode for Perovskite Solar Cells. Advanced Energy Materials, 2019, 9, 1901204.	10.2	101
22	Selective Formation of Homoleptic and Heteroleptic 2,5-Bis(N-aryliminomethyl)pyrrolyl Yttrium Complexes and Their Performance as Initiators of Îµ-Caprolactone Polymerization. Organometallics, 2001, 20, 3510-3518.	1.1	99
23	Carbon-sandwiched perovskite solar cell. Journal of Materials Chemistry A, 2018, 6, 1382-1389.	5.2	98
24	Lamellar Assembly of Conical Molecules Possessing a Fullerene Apex in Crystals and Liquid Crystals. Journal of the American Chemical Society, 2007, 129, 3052-3053.	6.6	94
25	Facile synthesis of a 56Ï€-electron 1,2-dihydromethano-[60]PCBM and its application for thermally stable polymer solar cells. Chemical Communications, 2011, 47, 10082.	2.2	89
26	Perovskite Solar Cells Using Carbon Nanotubes Both as Cathode and as Anode. Journal of Physical Chemistry C, 2017, 121, 25743-25749.	1.5	89
27	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
28	Singleâ€Walled Carbon Nanotubes in Emerging Solar Cells: Synthesis and Electrode Applications. Advanced Energy Materials, 2019, 9, 1801312.	10.2	86
29	Photocurrent-Generating Properties of Organometallic Fullerene Molecules on an Electrode. Journal of the American Chemical Society, 2008, 130, 5016-5017.	6.6	85
30	Creation of Hoop- and Bowl-Shaped Benzenoid Systems by Selective Detraction of [60]Fullerene Conjugation. [10]Cyclophenacene and Fused Corannulene Derivatives. Journal of the American Chemical Society, 2004, 126, 8725-8734.	6.6	84
31	Addition of Dihydromethano Group to Fullerenes to Improve the Performance of Bulk Heterojunction Organic Solar Cells. Advanced Materials, 2013, 25, 6266-6269.	11.1	83
32	Kinetic Study of the Dielsâ€“Alder Reaction of Li⁺@C₆₀ with Cyclohexadiene: Greatly Increased Reaction Rate by Encapsulated Li⁺. Journal of the American Chemical Society, 2014, 136, 11162-11167.	6.6	82
33	Synthesis of Ferrocene/Hydrofullerene Hybrid and Functionalized Bucky Ferrocenes. Journal of the American Chemical Society, 2003, 125, 13974-13975.	6.6	79
34	Preparation of endohedral fullerene containing lithium (Li@C60) and isolation as pure hexafluorophosphate salt ([Li+@C60][PF6â^']). RSC Advances, 2012, 2, 10624.	1.7	75
35	Fluorescein-based fluorescent porous aromatic framework for Fe³⁺ detection with high sensitivity. Journal of Materials Chemistry C, 2019, 7, 2327-2332.	2.7	75
36	Vapor-Assisted Ex-Situ Doping of Carbon Nanotube toward Efficient and Stable Perovskite Solar Cells. Nano Letters, 2019, 19, 2223-2230.	4.5	72

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37	Intramolecular Benzylation of an Imino Group of Tridentate 2,5-Bis(N-aryliminomethyl)pyrrolyl Ligands Bound to Zirconium and Hafnium Gives Amido-Pyrrolyl Complexes That Catalyze Ethylene Polymerization. Organometallics, 2004, 23, 2797-2805.	1.1	71
38	Syntheses, Structure, and Derivatization of Potassium Complexes of Penta(organo)[60]fullerene-Monoanion, -Dianion, and -Trianion into Hepta- and Octa(organo)fullerenes. Journal of the American Chemical Society, 2005, 127, 8457-8466.	6.6	71
39	Copper-Catalyzed Formal [4 + 2] Annulation between Alkyne and Fullerene Bromide. Journal of the American Chemical Society, 2010, 132, 12234-12236.	6.6	70
40	Achieving High Efficiency in Solution-Processed Perovskite Solar Cells Using C₆₀/C₇₀ Mixed Fullerenes. ACS Applied Materials & Interfaces, 2018, 10, 39590-39598.	4.0	67
41	Metal-electrode-free Window-like Organic Solar Cells with p-Doped Carbon Nanotube Thin-film Electrodes. Scientific Reports, 2016, 6, 31348.	1.6	66
42	Synergic Catalysts of Polyoxometalate@Cationic Porous Aromatic Frameworks: Reciprocal Modulation of Both Capture and Conversion Materials. Advanced Materials, 2019, 31, e1902444.	11.1	65
43	Ruthenium(II) Complexes of Pentamethylated [60]Fullerene. Alkyl, Alkynyl, Chloro, Isocyanide, and Phosphine Complexes. Organometallics, 2003, 22, 2554-2563.	1.1	64
44	Penta(organo)[60]fullerenes as acceptors for organic photovoltaic cells. Journal of Materials Chemistry, 2009, 19, 5804.	6.7	64
45	Stable and Reproducible 2D/3D Formamidiniumâ€“Leadâ€“Iodide Perovskite Solar Cells. ACS Applied Energy Materials, 2019, 2, 2486-2493.	2.5	64
46	Organic and Organometallic Derivatives of Dihydrogen-Encapsulated [60]Fullerene. Journal of the American Chemical Society, 2005, 127, 17148-17149.	6.6	63
47	Synthesis and Electrochemistry of Double-Decker Buckyferrocenes. Journal of the American Chemical Society, 2006, 128, 7154-7155.	6.6	63
48	Organic Solid Solution Composed of Two Structurally Similar Porphyrins for Organic Solar Cells. Journal of the American Chemical Society, 2015, 137, 2247-2252.	6.6	62
49	Functionalization of [60]fullerene through fullerene cation intermediates. Chemical Communications, 2018, 54, 11244-11259.	2.2	62
50	Nickel, Palladium, and Platinum Complexes of Î·5-Cyclopentadienide C60R5Ligands. Kinetic and Thermodynamic Stabilization Effects of the C60Ph5Ligand. Organometallics, 2004, 23, 3259-3266.	1.1	61
51	Molecular and Supramolecular Control of the Work Function of an Inorganic Electrode with Self-Assembled Monolayer of Umbrella-Shaped Fullerene Derivatives. Journal of the American Chemical Society, 2011, 133, 16997-17004.	6.6	61
52	Soluble porphyrin donors for small molecule bulk heterojunction solar cells. Journal of Materials Chemistry, 2012, 22, 19258.	6.7	61
53	Controlled Redox of Lithium-Ion Endohedral Fullerene for Efficient and Stable Metal Electrode-Free Perovskite Solar Cells. Journal of the American Chemical Society, 2019, 141, 16553-16558.	6.6	61
54	Unique Complexation of 1,4-Diaza-1,3-butadiene Ligand on Half-Metallocene Fragments of Niobium and Tantalum. Organometallics, 1999, 18, 1471-1481.	1.1	60

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55	FeCl₃-Mediated Synthesis of Fullerenyl Esters as Low-LUMO Acceptors for Organic Photovoltaic Devices. Organic Letters, 2012, 14, 3276-3279.	2.4	60
56	Polymeric acid-doped transparent carbon nanotube electrodes for organic solar cells with the longest doping durability. Journal of Materials Chemistry A, 2018, 6, 14553-14559.	5.2	60
57	Covalently Chemical Modification of Lithium Ion-Encapsulated Fullerene: Synthesis and Characterization of [Li⁺@PCBM]PF₆^{â€“}. Organic Letters, 2012, 14, 3784-3787.	2.4	58
58	Ferromagnetic Ordering in Superatomic Solids. Journal of the American Chemical Society, 2014, 136, 16926-16931.	6.6	58
59	Single-Walled Carbon Nanotubes in Solar Cells. Topics in Current Chemistry, 2018, 376, 4.	3.0	58
60	Sharing Orbitals:Â Ultrafast Excited State Deactivations with Different Outcomes in Bucky Ferrocenes and Ruthenocenes. Journal of the American Chemical Society, 2006, 128, 9420-9427.	6.6	57
61	Scalable and Solidâ€State Redox Functionalization of Transparent Singleâ€Walled Carbon Nanotube Films for Highly Efficient and Stable Solar Cells. Advanced Energy Materials, 2017, 7, 1700449.	10.2	57
62	A fluorenylidene-acridane that becomes dark in color upon grinding â€“ ground state mechanochromism by conformational change. Chemical Science, 2018, 9, 475-482.	3.7	57
63	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
64	Ball-and-Socket Stacking of Supercharged Geodesic Polyarenes:Â Bonding by Interstitial Lithium Ions. Journal of the American Chemical Society, 2005, 127, 9581-9587.	6.6	56
65	Regioselective Eightfold and Tenfold Additions of a Pyridine-Modified Organocopper Reagent to [60]Fullerene. Angewandte Chemie - International Edition, 2007, 46, 2844-2847.	7.2	55
66	Synthesis of Thieno-Bridged Porphyrins: Changing the Antiaromatic Contribution by the Direction of the Thiophene Ring. Journal of the American Chemical Society, 2012, 134, 16540-16543.	6.6	55
67	Synthesis and Reactivity of Bucky Ruthenocene Ru(Î·5-C60Me5)(Î·5-C5H5). Chemistry Letters, 2004, 33, 68-69.	0.7	54
68	Mechanochromism, Twisted/Folded Structure Determination, and Derivatization of (Nâ€Phenylfluorenylidene)acridane. Angewandte Chemie - International Edition, 2019, 58, 8762-8767.	7.2	54
69	Nickel-Catalyzed Deaminative Acylation of Activated Aliphatic Amines with Aromatic Amides via Câ€“N Bond Activation. Organic Letters, 2020, 22, 950-955.	2.4	54
70	Molecular Photoelectric Switch Using a Mixed SAM of Organic [60]Fullerene and [70]Fullerene Doped with a Single Iron Atom. Journal of the American Chemical Society, 2011, 133, 9932-9937.	6.6	53
71	AlCl3-Mediated Mono-, Di-, and Trihydroarylation of [60]Fullerene. Angewandte Chemie - International Edition, 2007, 46, 3513-3516.	7.2	52
72	Efficient Dielsâ€“Alder Addition of Cyclopentadiene to Lithium Ion Encapsulated [60]Fullerene. Organic Letters, 2013, 15, 4466-4469.	2.4	52

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73	Recent progress in porphyrin- and phthalocyanine-containing perovskite solar cells. RSC Advances, 2020, 10, 32678-32689.	1.7	51
74	Carbon nanotubes to outperform metal electrodes in perovskite solar cells via dopant engineering and hole-selectivity enhancement. Journal of Materials Chemistry A, 2020, 8, 11141-11147.	5.2	51
75	Ï€-Conjugated Multidonor/Acceptor Arrays of Fullereneâ^'Cobaltadithioleneâ^'Tetrathiafulvalene: From Synthesis and Structure to Electronic Interactions. Journal of the American Chemical Society, 2009, 131, 12643-12649.	6.6	50
76	Highly Conductive and Transparent Largeâ€Area Bilayer Graphene Realized by MoCl₅ Intercalation. Advanced Materials, 2017, 29, 1702141.	11.1	50
77	Synthesis, Electrochemical and Photophysical Properties, and Electroluminescent Performance of the Octaâ€•and Deca(aryl)[60]fullerene Derivatives. Advanced Functional Materials, 2009, 19, 2224-2229.	7.8	49
78	Luminescent Bow-Tie-Shaped Decaaryl[60]fullerene Mesogens. Journal of the American Chemical Society, 2009, 131, 17058-17059.	6.6	48
79	Photostability of a dyad of magnesium porphyrin and fullerene and its application to photocurrent conversion. Chemical Communications, 2013, 49, 279-281.	2.2	48
80	Synthesis and Characterization of Bis(iminopyrrolyl)zirconium Complexes. Chemistry Letters, 2000, 29, 1114-1115.	0.7	47
81	Convergent Synthesis of a Polyfunctionalized Fullerene by Regioselective Five-Fold Addition of a Functionalized Organocopper Reagent to C60. Organic Letters, 2006, 8, 1463-1466.	2.4	47
82	Face-to-face C6F5â€“[60]fullerene interaction for ordering fullerene molecules and application to thin-film organic photovoltaics. Chemical Communications, 2010, 46, 8582.	2.2	47
83	MÃ¶ssbauer Spectroscopy of Bucky Ferrocenes:Â Lattice Dynamics and Motional Anisotropy of the Metal Atom. Inorganic Chemistry, 2005, 44, 5629-5635.	1.9	45
84	Polarity engineering of porous aromatic frameworks for specific water contaminant capture. Journal of Materials Chemistry A, 2019, 7, 2507-2512.	5.2	45
85	Polyaromatic Nanotweezers on Semiconducting Carbon Nanotubes for the Growth and Interfacing of Lead Halide Perovskite Crystal Grains in Solar Cells. Chemistry of Materials, 2020, 32, 5125-5133.	3.2	45
86	Highly Selective and Scalable Fullerene-Cation-Mediated Synthesis Accessing Cyclo[60]fullerenes with Five-Membered Carbon Ring and Their Application to Perovskite Solar Cells. Chemistry of Materials, 2019, 31, 8432-8439.	3.2	44
87	Electron Microscopic Imaging of a Single Group 8 Metal Atom Catalyzing Câ€“C Bond Reorganization of Fullerenes. Journal of the American Chemical Society, 2011, 133, 14151-14153.	6.6	43
88	Mixture of [60] and [70]PCBM giving morphological stability in organic solar cells. Applied Physics Letters, 2013, 103, .	1.5	43
89	Half-Metallocene Tantalum Complexes Bearing Methyl Methacrylate (MMA) and 1,4-Diaza-1,3-diene Ligands as MMA Polymerization Catalysts. Angewandte Chemie - International Edition, 2001, 40, 960-962.	7.2	42
90	Octupole-like Supramolecular Aggregates of Conical Iron Fullerene Complexes into a Three-Dimensional Liquid Crystalline Lattice. Journal of the American Chemical Society, 2010, 132, 15514-15515.	6.6	41

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91	An Amorphous Mesophase Generated by Thermal Annealing for Highâ€Performance Organic Photovoltaic Devices. Advanced Materials, 2012, 24, 3521-3525.	11.1	41
92	Tetracene Dicarboxylic Imide and Its Disulfide: Synthesis of Ambipolar Organic Semiconductors for Organic Photovoltaic Cells. Chemistry - an Asian Journal, 2012, 7, 105-111.	1.7	41
93	SYNTHESIS OF 6,9,12,15,18-PENTAMETHYL-1,6,9,12,15,18-HEXAHYDRO(C60-Ih)[5,6]FULLERENE. Organic Syntheses, 2006, 83, 80.	1.0	41
94	Synthesis and catalytic activity of rhodium diene complexes bearing indenyl-type fullerene Î·5-ligand. Journal of Organometallic Chemistry, 2003, 683, 295-300.	0.8	40
95	Regiocontrolled Synthesis of 1,2-Di(organo)fullerenes via Copper-Assisted 1,4-Aryl Migration from Silicon to Carbon. Organic Letters, 2011, 13, 6058-6061.	2.4	40
96	Electrochemical reduction of cationic Li⁺@C₆₀ to neutral Li⁺@C₆₀Ë™^{â^’}: isolation and characterisation of endohedral [60]fulleride. Chemical Science, 2016, 7, 5770-5774.	3.7	40
97	Multifunctional Effect of pâ€Doping, Antireflection, and Encapsulation by Polymeric Acid for High Efficiency and Stable Carbon Nanotubeâ€Based Silicon Solar Cells. Advanced Energy Materials, 2020, 10, 1902389.	10.2	40
98	Synthesis and Derivatization of Iridium(I) and Iridium(III) Pentamethyl[60]fullerene Complexes. Organometallics, 2005, 24, 89-95.	1.1	39
99	A Vâ€Shaped Polyaromatic Amphiphile: Solubilization of Various Nanocarbons in Water and Enhanced Photostability. Chemistry - A European Journal, 2015, 21, 12741-12746.	1.7	39
100	Rhenium-Templated Regioselective Polyhydrogenation Reaction of [60]Fullerene. Angewandte Chemie - International Edition, 2003, 42, 3530-3532.	7.2	38
101	Remote Chirality Transfer within a Coordination Sphere by the Use of a Ligand Possessing a Concave Cavity. Organometallics, 2006, 25, 2826-2832.	1.1	38
102	Uniquely Shaped Double-Decker Buckyferrocenesâ€”Distinct Electron Donorâ^’Acceptor Interactions. Journal of the American Chemical Society, 2008, 130, 16207-16215.	6.6	38
103	Synthesis of Functionalized Fullerene by Mono-alkylation of Fullerene Cyclopentadienide. Chemistry Letters, 2004, 33, 328-329.	0.7	36
104	Convenient synthesis of anionic dinuclear ruthenium(II) complexes [NR2H2][{RuCl(diphosphine)}2(Î¼-Cl)3] [diphosphine=2,2â€²-bis(diphenylphosphino)-1,1â€²-binaphthyl, 2,2â€²-bis(di(p-tolyl)phosphino)-1,1â€²-binaphthyl, and 1,2-bis(diphenylphosphino)benzene]: crystal structure of [NEt2H2][{RuCl(1,2-bis(diphenylphosphino)benzene)}2(Î¼-Cl)3]. Journal of Organometallic Chemistry, 2000, 607, 51-56.	0.8	35
105	Regio- and stereo-selective intermolecular [2+2] cycloaddition of allenol esters with C₆₀leading to alkylidenecyclobutane-annulated fullerenes. Chemical Communications, 2016, 52, 13175-13178.	2.2	35
106	Fullerene-Cation-Mediated Noble-Metal-Free Direct Introduction of Functionalized Aryl Groups onto [60]Fullerene. Organic Letters, 2018, 20, 3372-3376.	2.4	35
107	Synthesis and Structural Characterization of 2,5-Bis(N-aryliminomethyl)pyrrolyl Complexes of Aluminum. Bulletin of the Chemical Society of Japan, 2003, 76, 1965-1968.	2.0	34
108	Synthesis of 1,4-diaryl[60]fullerenes by bis-hydroarylation of C60 and their use in solution-processable, thin-film organic photovoltaic cells. Tetrahedron Letters, 2011, 52, 2240-2242.	0.7	34

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109	Synthesis of Metal Fullerene Complexes by the Use of Fullerene Halides. Organometallics, 2008, 27, 3403-3409.	1.1	33
110	Air-processed inverted organic solar cells utilizing a 2-aminoethanol-stabilized ZnO nanoparticle electron transport layer that requires no thermal annealing. Journal of Materials Chemistry A, 2014, 2, 18754-18760.	5.2	33
111	Structurally Defined High-LUMO-Level 66Ï€-[70]Fullerene Derivatives: Synthesis and Application in Organic Photovoltaic Cells. Chemistry of Materials, 2012, 24, 2572-2582.	3.2	31
112	Increased Efficiency in Small Molecule Organic Solar Cells Through the Use of a 56-Ï€ Electron Acceptor â€“ Methano Indene Fullerene. Scientific Reports, 2015, 5, 8319.	1.6	31
113	Denatured M13 Bacteriophageâ€Templated Perovskite Solar Cells Exhibiting High Efficiency. Advanced Science, 2020, 7, 2000782.	5.6	31
114	Nonplanar Ïƒ2,Ï€-and Planar Ïƒ2-Enediamide Coordinations of 1,4-Di(p-methoxyphenyl)-1,4-diaza-1,3-butadiene (=MeOC6H4-DAD) on Ta(Î·5-C5R5) Fragments (R=H,Me): Crystal Structures of TaCl2(Ïƒ2,Ï€-MeOC6H4-dad)(Î·5-C5H5) and Ta(Ïƒ2-MeOC6H4-dad)(Î·5-C5Me5)(Î·4-1,3-butadiene). Chemistry Letters, 1997, 26, 767-768.	0.7	30
115	Chiral Rutheniumâ€“Allenylidene Complexes That Bear a Fullerene Cyclopentadienyl Ligand: Synthesis, Characterization, and Remote Chirality Transfer. Chemistry - an Asian Journal, 2007, 2, 358-366.	1.7	30
116	Deterioration of bulk heterojunction organic photovoltaic devices by a minute amount of oxidized fullerene. Chemical Communications, 2012, 48, 3878.	2.2	30
117	Cu(i)-mediated regioselective tri-addition of Grignard reagent to [70]fullerene. Synthesis of indenyl-type metal ligand embedded into graphitic structure. Journal of Materials Chemistry, 2002, 12, 2109-2115.	6.7	29
118	X-ray Crystallographic Characterization of Potassium Pentaphenyl[60]fullerene. Chemistry Letters, 2005, 34, 1078-1079.	0.7	29
119	Facile fullerene modification: FeCl3-mediated quantitative conversion of C60 to polyarylated fullerenes containing pentaaryl(chloro)[60]fullerenes. Organic and Biomolecular Chemistry, 2011, 9, 6417.	1.5	29
120	Triarylamine/Bithiophene Copolymer with Enhanced Quinoidal Character as Holeâ€Transporting Material for Perovskite Solar Cells. Angewandte Chemie - International Edition, 2022, 61, .	7.2	29
121	Intramolecular Coupling Reaction of 1-Aza-1,3-butadiene Ligand and Iminoacyl Ligand Giving Amidoâ^Imido Complexes of Tantalum. Organometallics, 2002, 21, 138-143.	1.1	28
122	Synthesis of trialkyl[60]fullerene C60(CH2SiMe3)3H and its potassium and rhodium(I) complexes. Inorganica Chimica Acta, 2006, 359, 1979-1982.	1.2	27
123	Diâ€•and Trinuclear [70]Fullerene Complexes: Syntheses and Metalâ€“Metal Electronic Interactions. Angewandte Chemie - International Edition, 2009, 48, 6239-6241.	7.2	27
124	Isolation of Planar Four-Membered Aromatic Systems by Using Confined Spaces of Cobalt Pentaaryl[60]fullerene Complexes. Journal of the American Chemical Society, 2011, 133, 6890-6893.	6.6	27
125	Coupling of Alkylarene and Pentamethyl[60]fullerene by Iridium-catalyzed Benzylic Câ€“H Bond Activation. Chemistry Letters, 2006, 35, 858-859.	0.7	26
126	Group 6 Metal Complexes of the Î·⁵-Pentamethyl[60]fullerene. Organometallics, 2008, 27, 4611-4617.	1.1	26

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127	Vertical phase separation and light-soaking effect improvements by photoactive layer spin coating initiation time control in air-processed inverted organic solar cells. Solar Energy Materials and Solar Cells, 2015, 140, 335-343.	3.0	26
128	Regioselective acylation and carboxylation of [60]fulleroindoline via electrochemical synthesis. Organic Chemistry Frontiers, 2017, 4, 603-607.	2.3	26
129	Substituent effects in magnesium tetraethynylporphyrin with two diketopyrrolopyrrole units for bulk heterojunction organic solar cells. Journal of Materials Chemistry A, 2017, 5, 23067-23077.	5.2	26
130	A helically-twisted ladder based on 9,9â€²-bifluorenylidene: synthesis, characterization, and carrier-transport properties. Materials Chemistry Frontiers, 2018, 2, 780-784.	3.2	26
131	Li@C₆₀ endohedral fullerene as a supraatomic dopant for C₆₀ electron-transporting layers promoting the efficiency of perovskite solar cells. Chemical Communications, 2019, 55, 11837-11839.	2.2	26
132	Addition of Tetrahydrofuran to [60]Fullerene through Cå¯H Bond Activation Induced by Arylzinc Reagents. Organic Letters, 2008, 10, 1251-1254.	2.4	25
133	Small molecule solution-processed bulk heterojunction solar cells with inverted structure using porphyrin donor. Applied Physics Letters, 2013, 102, .	1.5	24
134	Anion Exchange of Li⁺@C₆₀ Salt for Improved Solubility. Fullerenes Nanotubes and Carbon Nanostructures, 2014, 22, 262-268.	1.0	24
135	An Enantiopure Hydrogenâ€Bonded Octameric Tube: Selfâ€Sorting and Guestâ€Induced Rearrangement. Angewandte Chemie - International Edition, 2016, 55, 208-212.	7.2	24
136	Star-shaped magnesium tetraethynylporphyrin bearing four peripheral electron-accepting diketopyrrolopyrrole functionalities for organic solar cells. Journal of Materials Chemistry A, 2019, 7, 4072-4083.	5.2	24
137	Efficient Bidirectional Photocurrent Generation by Selfâ€Assembled Monolayer of Penta(aryl)[60]fullerene Phosphonic Acid. Chemistry - an Asian Journal, 2009, 4, 1208-1212.	1.7	23
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301	(Invited) Selective Synthesis of Photoelectrochemical Active Co8S15 Cluster inside the Bowl-Shaped Templating Pentaorgano[60]Fullerene Ligand. ECS Meeting Abstracts, 2016, , .	0.0	0
302	Extracting and Evaluating Ontologies of Human Activities from Linked Open Data and Social Media. Transactions of the Japanese Society for Artificial Intelligence, 2016, 31, LOD-H_1-12.	0.1	0
303	(Invited) Organic Functionalization of Lithium-Ion-Endohedral Fullerenes. ECS Meeting Abstracts, 2016, , .	0.0	0
304	(Invited) Carbon Nanotube Network As Stable and Efficient Electron Blocking Layer and Transparent Conductive Electrodes for Solar Cells. ECS Meeting Abstracts, 2016, , .	0.0	0
305	(Invited) Modification of Lithium-Ion-Containing [60]Fullerene: Synthesis and Successful Preparation of Each [5,6]- and [6,6]-Isomer. ECS Meeting Abstracts, 2017, , .	0.0	0
306	Chemical Modification of Li+@C60. , 2017, , 51-88.		0

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307	Semi-Supervised Distillation: Personalizing Deep Neural Networks in Activity Recognition using Inertial Sensors. Transactions of the Japanese Society for Artificial Intelligence, 2017, 32, A-G82_1-11.	0.1	0
308	(Invited) Fullerene Cation-Mediated Demethylation/Cyclization to 5- and 7-Membered Cyclo[60]Fullerene Derivatives. ECS Meeting Abstracts, 2017, , .	0.0	0
309	Synthesis and Characterization of Lithium-Ion-Containing Fullerene. , 2017, , 25-38.		0
310	Computational Studies of Li@C60. , 2017, , 117-128.		0
311	Photoinduced Electron Transfer in Li+@C60. , 2017, , 89-104.		0
312	Neutral Li@C60: A Hydrogen-Like Superatom. , 2017, , 105-115.		0
313	Li+@C60 Salts: Crystal Structures and Properties. , 2017, , 39-49.		0
314	User-Adversarial Neural Networks :. Transactions of the Japanese Society for Artificial Intelligence, 2017, 32, A-GB5_1-12.	0.1	0
315	(Invited) Structures and Properties of Saturn-like Complexes Composed of Oligothiophene Macrocycle with Methano[60]Fullerene and [70]Fullerene. ECS Meeting Abstracts, 2018, , .	0.0	0
316	(Invited) Highly Stabilized Perovskite Solar Cells By Li-Ion-Containing Fullerene Salt As Both Dopant and Anti-Oxidant. ECS Meeting Abstracts, 2018, , .	0.0	0
317	Substituents Effect in Magnesium Tetraethynylporphyrin for Bulk Heterojunction Organic Solar Cells. ECS Meeting Abstracts, 2018, , .	0.0	0
318	Highly Stable and Efficient 2D/3D Formamidinium-Lead-Iodide Inverted-Type Perovskite Solar Cells. , 0, , .		0
319	Investigation for Energy Levels of an Organic Thin-film Semiconductor by Photoemission Yield Spectroscopy in Air. Bunseki Kagaku, 2018, 67, 647-651.	0.1	0
320	(Invited) High Performance Carbon Nanotube â€“Laminated Perovskite Solar Cells. ECS Meeting Abstracts, 2019, , .	0.0	0
321	Star-Shaped Magnesium Tetraethynylporphyrin Bearing Four Peripheral Electron-Accepting Functionalities for Organic Solar Cell. ECS Meeting Abstracts, 2019, , .	0.0	0
322	(Invited) Synthesis of Benzothieno[60]Fullerenes through Fullerenyl Cation Intermediates. ECS Meeting Abstracts, 2019, , .	0.0	0
323	(Invited) Lithium-Ion Endohedral Fullerenes on Carbon Nanotube Electrode-Laminated Perovskite Solar Cells As Dopants and Anti-Oxidants. ECS Meeting Abstracts, 2019, , .	0.0	0
324	Scene Interpretation Method using Transformer and Self-supervised Learning. Transactions of the Japanese Society for Artificial Intelligence, 2022, 37, I-L75_1-17.	0.1	0

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325	(Invited) Toward Nanocarbon Materials-Based Organic and Perovskite Solar Cells. ECS Meeting Abstracts, 2022, MA2022-01, 796-796.	0.0	0
326	(Invited) Evaporable Fullerene-Fused Ketone Via One-Step Direct Oxidation of Alkoxy to Ketone: Fullerene As a Redox Active Pendant. ECS Meeting Abstracts, 2022, MA2022-01, 812-812.	0.0	0