Hisanori Shinohara

List of Publications by Year
in descending order

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392 papers	17,906 citations	13099 68 h-index	22166 113 g-index
416 all docs	416 docs citations	416 times ranked	12253 citing authors

#	Article	IF	Citations
1	C66 fullerene encaging a scandium dimer. Nature, 2000, 408, 426-427.	27.8	647
2	Confirmation by X-ray diffraction of the endohedral nature of the metallofullerene Y@C82. Nature, 1995, 377, 46-49.	27.8	499
3	Paramagnetic Water-Soluble Metallofullerenes Having the Highest Relaxivity for MRI Contrast Agents. Bioconjugate Chemistry, 2001, 12, 510-514.	3.6	450
4	Diameter and rigidity of multiwalled carbon nanotubes are critical factors in mesothelial injury and carcinogenesis. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, E1330-8.	7.1	437
5	Encapsulation of a scandium trimer in C82. Nature, 1992, 357, 52-54.	27.8	338
6	A Scandium Carbide Endohedral Metallofullerene: (Sc2C2)@C84. Angewandte Chemie - International Edition, 2001, 40, 397-399.	13.8	290
7	Lanthanoid Endohedral Metallofullerenols for MRI Contrast Agents. Journal of the American Chemical Society, 2003, 125, 4391-4397.	13.7	284
8	A layered ionic crystal of polar Li@C60 superatoms. Nature Chemistry, 2010, 2, 678-683.	13.6	275
9	Direct Chemical Vapor Deposition Growth of WS₂ Atomic Layers on Hexagonal Boron Nitride. ACS Nano, 2014, 8, 8273-8277.	14.6	267
10	New Synthesis of High-Quality Double-Walled Carbon Nanotubes by High-Temperature Pulsed Arc Discharge. Nano Letters, 2003, 3, 769-773.	9.1	208
11	Fabrication of Metal Nanowires in Carbon Nanotubes via Versatile Nano-Template Reaction. Nano Letters, 2008, 8, 693-699.	9.1	188
12	Structure of a Missing-Caged Metallofullerene:Â La2@C72. Journal of the American Chemical Society, 2003, 125, 7782-7783.	13.7	185
13	Isolation and Characterization of Sc2C2@C68: A Metal-Carbide Endofullerene with a Non-IPR Carbon Cage. Angewandte Chemie - International Edition, 2006, 45, 2107-2111.	13.8	181
14	Bulk production of quasi-aligned carbon nanotube bundles by the catalytic chemical vapour deposition (CCVD) method. Chemical Physics Letters, 1999, 303, 117-124.	2.6	165
15	The Smallest Stable Fullerene, M@C₂₈ (M = Ti, Zr, U): Stabilization and Growth from Carbon Vapor. Journal of the American Chemical Society, 2012, 134, 9380-9389.	13.7	165
16	Determination of the cage structure of Sc@C82 by synchrotron powder diffraction. Chemical Physics Letters, 1998, 298, 79-84.	2.6	159
17	Encapsulation of Fullerenes in a Helical PMMA Cavity Leading to a Robust Processable Complex with a Macromolecular Helicity Memory. Angewandte Chemie - International Edition, 2008, 47, 515-519.	13.8	154
18	Production and characterization of boron- and silicon-doped carbon clusters. Chemical Physics Letters, 1996, 256, 269-273.	2.6	153

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19	Exfoliation and Chemical Modification Using Microwave Irradiation Affording Highly Functionalized Graphene. ACS Nano, 2010, 4, 7499-7507.	14.6	150
20	Structure of Endohedral Dimetallofullerene Sc2@C84. Physical Review Letters, 1997, 78, 3330-3333.	7.8	149
21	Field Ion-Scanning Tunneling Microscopy Study of C60on the Si(100) Surface. Japanese Journal of Applied Physics, 1992, 31, L880-L883.	1.5	146
22	Scanning Tunneling Microscopy of C60on the Si(111)7Ã—7 Surface. Japanese Journal of Applied Physics, 1992, 31, L983-L986.	1.5	145
23	Sizeâ€Selective Complexation and Extraction of Endohedral Metallofullerenes with Cycloparaphenylene. Angewandte Chemie - International Edition, 2014, 53, 3102-3106.	13.8	144
24	InÂSituObservation of Thermal Relaxation of Interstitial-Vacancy Pair Defects in a Graphite Gap. Physical Review Letters, 2005, 94, 155502.	7.8	142
25	Trapping a C2Radical in Endohedral Metallofullerenes:Â Synthesis and Structures of (Y2C2)@C82(Isomers I, II, and III). Journal of Physical Chemistry B, 2004, 108, 7573-7579.	2.6	140
26	Production, Isolation, and Electronic Properties of Missing Fullerenes:Â Ca@C72and Ca@C74. Journal of the American Chemical Society, 1998, 120, 6806-6807.	13.7	138
27	Enhanced stability of ionâ€“clathrate structures for magic number water clusters. Journal of Chemical Physics, 1986, 84, 209-214.	3.0	136
28	Giant motion of La atom inside C82 cage. Chemical Physics Letters, 2000, 330, 497-502.	2.6	134
29	Single-wall carbon nanotubes encaging linear chain C10H2 polyyne molecules inside. Chemical Physics Letters, 2006, 428, 356-360.	2.6	132
30	Size-selective synthesis of [9]â€“[11] and [13]cycloparaphenylenes. Chemical Science, 2012, 3, 2340.	7.4	132
31	Single Molecular Orientation Switching of an Endohedral Metallofullerene. Nano Letters, 2005, 5, 1057-1060.	9.1	128
32	Length-sorted semiconducting carbon nanotubes for high-mobility thin film transistors. Nano Research, 2011, 4, 963-970.	10.4	128
33	Production and Isolation of Ca@C82(Iâ^'IV) and Ca@C84(I,II) Metallofullerenes. Journal of the American Chemical Society, 1996, 118, 11309-11310.	13.7	127
34	Triangle Scandium Cluster Imprisoned in a Fullerene Cage. Physical Review Letters, 1999, 83, 2214-2217.	7.8	124
35	Isolation and Characterization by13C NMR Spectroscopy of [84]Fullerene Minor Isomers. Journal of Physical Chemistry A, 1999, 103, 8747-8752.	2.5	123
36	Conductivity and Field Effect Transistor of La2@C80 Metallofullerene. Journal of the American Chemical Society, 2003, 125, 8116-8117.	13.7	114

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37	Selective synthesis of double-wall carbon nanotubes by CCVD of acetylene using zeolite supports. Chemical Physics Letters, 2003, 382, 679-685.	2.6	113
38	13C-NMR Study on the Structure of Isolated Sc2@C84Metallofullerene. Journal of the American Chemical Society, 1996, 118, 2293-2294.	13.7	109
39	A Preparative Scale Synthesis of C36by High-Temperature Laser-Vaporization:Â Purification and Identification of C36H6and C36H6O. Journal of the American Chemical Society, 2000, 122, 398-399.	13.7	106
40	EELS and13C NMR Characterization of Pure Ti2@C80Metallofullerene. Journal of the American Chemical Society, 2001, 123, 9679-9680.	13.7	106
41	Double-wall carbon nanotube field-effect transistors: Ambipolar transport characteristics. Applied Physics Letters, 2004, 84, 2412-2414.	3.3	105
42	Photodetachment, photodissociation, and photochemistry of surface molecules of icy solids containing NH3 and pure H2O ices. Journal of Chemical Physics, 1984, 80, 3898-3910.	3.0	104
43	Photoionization of water clusters at 11.83 eV: Observation of unprotonated cluster ions (H2O)+n (2â‰¤nâ‰¤10). Journal of Chemical Physics, 1986, 84, 5561-5567.	3.0	103
44	Quantum Chemical Study on the Configurations of Encapsulated Metal Ions and the Molecular Vibration Modes in Endohedral Dimetallofullerene La2@C80. Journal of the American Chemical Society, 2004, 126, 364-369.	13.7	102
45	Modulation of thermal and thermoelectric transport in individual carbon nanotubes by fullerene encapsulation. Nature Materials, 2017, 16, 892-897.	27.5	99
46	Photofragmentation of monoâ€•and dichloroethylenes: Translational energy measurements of recoiling Cl and HCl fragments. Journal of Chemical Physics, 1985, 83, 1657-1666.	3.0	97
47	Direct and Indirect Interlayer Excitons in a van der Waals Heterostructure of hBN/WS₂/MoS₂/hBN. ACS Nano, 2018, 12, 2498-2505.	14.6	96
48	C64H4:Â Production, Isolation, and Structural Characterizations of a Stable Unconventional Fulleride. Journal of the American Chemical Society, 2006, 128, 6605-6610.	13.7	90
49	Isolation and spectroscopic characterization of Sm-containing metallofullerenes. Chemical Physics Letters, 2000, 320, 435-440.	2.6	89
50	Growth of carbon nanotubes via twisted graphene nanoribbons. Nature Communications, 2013, 4, 2548.	12.8	89
51	Morphology and Melting Behavior of Ionic Liquids inside Single-Walled Carbon Nanotubes. Journal of the American Chemical Society, 2009, 131, 14850-14856.	13.7	87
52	Dimerization-Initiated Preferential Formation of Coronene-Based Graphene Nanoribbons in Carbon Nanotubes. Journal of Physical Chemistry C, 2012, 116, 15141-15145.	3.1	87
53	Production and isolation of an ellipsoidal C80 fullerene. Chemical Communications, 2000, , 557-558.	4.1	86
54	Real Time Reaction Dynamics in Carbon Nanotubes. Journal of the American Chemical Society, 2001, 123, 9673-9674.	13.7	85

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55	Photoionization of ammonia clusters: Detection and distribution of unprotonated cluster ions (NH3)+n, n=2â€“25. Journal of Chemical Physics, 1985, 83, 1939-1947.	3.0	84
56	Molecular mechanics studies on inclusion compounds of cyanine dye monomers and dimers in cyclodextrin cavities. Journal of the American Chemical Society, 1990, 112, 5824-5830.	13.7	84
57	A simple alcohol-chemical vapor deposition synthesis of single-layer graphenes using flash cooling. Applied Physics Letters, 2010, 96, .	3.3	81
58	Magic numbers for waterâ€“ammonia binary clusters: Enhanced stability of ion clathrate structures. Journal of Chemical Physics, 1985, 83, 4183-4192.	3.0	80
59	Photofragmentation of chlorobenzene: translational energy distribution of the recoiling Cl fragment. Chemical Physics, 1994, 189, 117-125.	1.9	79
60	Yield of fullerenes generated by contact arc method under He and Ar: dependence on gas pressure. Chemical Physics Letters, 1992, 200, 643-648.	2.6	76
61	Photodissociation of molecular beams of halogenated hydrocarbons at 193 nm. Chemical Physics, 1984, 88, 135-142.	1.9	75
62	C60Grown on the Cu(111)1Ã—1 Surface. Japanese Journal of Applied Physics, 1993, 32, L450-L453.	1.5	74
63	Drastic Change in Photoluminescence Properties of Graphene Quantum Dots by Chromatographic Separation. Advanced Optical Materials, 2014, 2, 983-989.	7.3	73
64	Control of diameter distribution of single-walled carbon nanotubes using the zeolite-CCVD method at atmospheric pressure. Carbon, 2005, 43, 431-436.	10.3	72
65	Crystal Structure of Buckminsterfullerene (C60) Incorporated by a U-Shaped Twin Donor. Chemistry Letters, 1992, 21, 1049-1052.	1.3	71
66	Enhanced 1520 nm Photoluminescence from Er³⁺ Ions in Di-erbium-carbide Metallofullerenes (Er₂C₂)@C₈₂ (Isomers I, II, and III). ACS Nano, 2007, 1, 456-462.	14.6	71
67	Evidence of Diamond Nanowires Formed inside Carbon Nanotubes from Diamantane Dicarboxylic Acid. Angewandte Chemie - International Edition, 2013, 52, 3717-3721.	13.8	71
68	Spectroscopic and structural study of Y2C2 carbide encapsulating endohedral metallofullerene: (Y2C2)@C82. Chemical Physics Letters, 2003, 382, 226-231.	2.6	70
69	Non-HPLC Rapid Separation of Metallofullerenes and Empty Cages with TiCl₄ Lewis Acid. Journal of the American Chemical Society, 2012, 134, 9762-9767.	13.7	70
70	Synthesis and Transformation of Linear Adamantane Assemblies inside Carbon Nanotubes. ACS Nano, 2012, 6, 8674-8683.	14.6	70
71	A Simple and Novel Way to Synthesize Aligned Nanotube Bundles at Low Temperature. Japanese Journal of Applied Physics, 1998, 37, L1257-L1259.	1.5	69
72	Bottom-up formation of endohedral mono-metallofullerenes is directed by charge transfer. Nature Communications, 2014, 5, 5844.	12.8	69

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73	Production of fullerenes and single-wall carbon nanotubes by high-temperature pulsed arc discharge. Journal of Chemical Physics, 2000, 112, 6000-6005.	3.0	68
74	Laser photofragmentation dynamics of an acrolein supersonic molecular beam at 193 nm. Journal of Chemical Physics, 1982, 77, 234-245.	3.0	67
75	Selective Chemical Vapor Deposition Synthesis of Double-Wall Carbon Nanotubes on Mesoporous Silica. Journal of Physical Chemistry B, 2005, 109, 1141-1147.	2.6	67
76	Chirality assignment of individual single-walled carbon nanotubes in carbon nanotube field-effect transistors by micro-photocurrent spectroscopy. Applied Physics Letters, 2004, 84, 1368-1370.	3.3	66
77	High-Resolution Analysis of (Sc3C2)@C80 Metallofullerene by Third Generation Synchrotron Radiation X-ray Powder Diffraction. Journal of Physical Chemistry B, 2006, 110, 19215-19219.	2.6	65
78	Highly Active and Selective Semihydrogenation of Alkynes with the Palladium Nanoparticlesâ€Tetrabutylammonium Borohydride Catalyst System. Advanced Synthesis and Catalysis, 2009, 351, 3143-3149.	4.3	65
79	Photofragmentation of chlorotoluenes and dichlorobenzenes: Substituent effects on the dissociation mechanism, and angular distribution of the Cl fragment. Journal of Chemical Physics, 1997, 107, 835-842.	3.0	61
80	Mono-, Di- and Trierbium Endohedral Metallofullerenes:Â Production, Separation, Isolation, and Spectroscopic Study. Chemistry of Materials, 2001, 13, 2374-2379.	6.7	61
81	High-Field/High-Frequency ESR Study of Gd@C82-I. Journal of Physical Chemistry A, 2003, 107, 10933-10937.	2.5	61
82	Isolation of Single-Wired Transition-Metal Monochalcogenides by Carbon Nanotubes. Nano Letters, 2019, 19, 4845-4851.	9.1	61
83	Metallofullerenes Sc2@C82(I,II) and Sc2@C86(I,II): isolation and spectroscopic studies. Chemical Physics Letters, 1999, 300, 379-384.	2.6	60
84	Structural and Electronic Properties of Isomers of Sc2@C84(I, II, III):13C NMR and IR/Raman Spectroscopic Studies. Journal of Physical Chemistry B, 2000, 104, 5072-5077.	2.6	60
85	DySc₂N@C₈₀ Single-Molecule Magnetic Metallofullerene Encapsulated in a Single-Walled Carbon Nanotube. Journal of the American Chemical Society, 2018, 140, 10955-10959.	13.7	60
86	Reactions of benzene clusters with metal ions as studied by the laser ablationâ€"molecular beam method: Observation of clustered complex ions M (C6H6)+n (n â©¾ 2) and fragment complex ions M (C6H6) (CXHY)+ with X â©½ and Y â©½ 4. Chemical Physics Letters, 1990, 171, 297-302.	2.6	58
87	Solubility and partial specific volumes of C60 and C70. Chemical Physics Letters, 1997, 264, 143-148.	2.6	58
88	Isolation and Characterization of Er@C60. Journal of the American Chemical Society, 2000, 122, 3538-3539.	13.7	58
89	Production, Separation, Isolation, and Spectroscopic Study of Dysprosium Endohedral Metallofullerenes. Chemistry of Materials, 2000, 12, 3222-3226.	6.7	58
90	Transport properties of C78, C90 and Dy@C82 fullerenes-nanopeapods by field effect transistors. Physica E: Low-Dimensional Systems and Nanostructures, 2004, 21, 1089-1092.	2.7	58

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91	Thin single-wall BN-nanotubes formed inside carbon nanotubes. Scientific Reports, 2013, 3, 1385.	3.3	58
92	Defect-Induced Atomic Migration in Carbon Nanopeapod:Â Tracking the Single-Atom Dynamic Behavior. Nano Letters, 2004, 4, 2451-2454.	9.1	57
93	Rotating Fullerene Chains in Carbon Nanopeapods. Nano Letters, 2008, 8, 2328-2335.	9.1	57
94	Bulk Plasmons in Solid C60. Japanese Journal of Applied Physics, 1991, 30, L1068-L1070.	1.5	55
95	Threshold ionization energy of C60 in the solid state. Chemical Physics, 1992, 162, 433-438.	1.9	55
96	Syntheses and EELS characterization of water-soluble multi-hydroxyl Gd@C82 fullerenols. Chemical Physics Letters, 2000, 324, 255-259.	2.6	55
97	Time-resolved EPR investigation of the triplet states of C60 and C70. Chemical Physics Letters, 1992, 195, 333-338.	2.6	54
98	Highâ€Performance Thinâ€Film Transistors with DNAâ€Assisted Solution Processing of Isolated Singleâ€Walled Carbon Nanotubes. Advanced Materials, 2010, 22, 2698-2701.	21.0	54
99	Excitedâ€State Charge Transfer in Covalently Functionalized MoS₂ with a Zinc Phthalocyanine Donorâ€“Acceptor Hybrid. Angewandte Chemie - International Edition, 2019, 58, 5712-5717.	13.8	52
100	Preferential arc-discharge production of higher fullerenes. Chemical Physics Letters, 1995, 246, 571-576.	2.6	51
101	Syntheses and Biological Evaluations of Î±-d-Mannosyl [60]fullerenols. Bioorganic and Medicinal Chemistry Letters, 2001, 11, 2935-2939.	2.2	51
102	Position-Controlled Carbon Nanotube Field-Effect Transistors Fabricated by Chemical Vapor Deposition Using Patterned Metal Catalyst. Japanese Journal of Applied Physics, 2003, 42, 4116-4119.	1.5	50
103	Fabrication and characteristics of C84 fullerene field-effect transistors. Applied Physics Letters, 2004, 84, 2572-2574.	3.3	50
104	Fast photodecomposition of chlorobenzene and m-chlorotoluene in molecular beams at 193 nm. Chemical Physics Letters, 1985, 122, 51-54.	2.6	49
105	Bent (metal)2C2 clusters encapsulated in (Sc2C2)@C82(III) and (Y2C2)@C82(III) metallofullerenes. Chemical Physics Letters, 2006, 433, 120-124.	2.6	49
106	Synchrotron radiation measurements of appearance potentials for (H2O)2+, (H2O)3+,(H2O)2H+ and (H2O)3H+ in supersonic jets. Chemical Physics Letters, 1987, 141, 7-11.	2.6	48
107	Endohedral Metallofullerenes and Nano-Peapods. Japanese Journal of Applied Physics, 2007, 46, 881-891.	1.5	48
108	High yield synthesis and characterization of the structural and magnetic properties of crystalline ErCl3 nanowires in single-walled carbon nanotube templates. Nano Research, 2008, 1, 152-157.	10.4	48

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109	Dynamics of Paramagnetic Metallofullerenes in Carbon Nanotube Peapods. Nano Letters, 2008, 8, 1005-1010.	9.1	48
110	Synthesis and Characterization of Eu-Metallofullerenes from Eu@C74to Eu@C90and Their Nanopeapods. Journal of Physical Chemistry B, 2004, 108, 9011-9015.	2.6	47
111	Entrapping of Exohedral Metallofullerenes in Carbon Nanotubes:â€‰ (CsC60)n@SWNT Nano-Peapods. Journal of the American Chemical Society, 2005, 127, 17972-17973.	13.7	47
112	Missing Smallâ€Bandgap Metallofullerenes: Their Isolation and Electronic Properties. Angewandte Chemie - International Edition, 2013, 52, 11770-11774.	13.8	47
113	Intraperitoneal administration of tangled multiwalled carbon nanotubes of 15â€‰nm in diameter does not induce mesothelial carcinogenesis in rats. Pathology International, 2013, 63, 457-462.	1.3	47
114	Excited state lifetimes and appearance potentials of benzene dimer and trimer. Journal of Chemical Physics, 1989, 91, 6743-6751.	3.0	46
115	In Situ Laser-Furnace TOF Mass Spectrometry of C36and the Large-Scale Production by Arc-Discharge. Journal of Physical Chemistry B, 2000, 104, 7908-7913.	2.6	46
116	Reversible Defect Engineering of Single-Walled Carbon Nanotubes Using Scanning Tunneling Microscopy. Nano Letters, 2007, 7, 3623-3627.	9.1	46
117	Production, Isolation, and EELS Characterization of Ti2@C84 Dititanium Metallofullerenes. Journal of Physical Chemistry B, 2002, 106, 9295-9298.	2.6	45
118	Evidence for the Intramolecular Motion of Gd Atoms in a Gd2@C92Nanopeapod. Nano Letters, 2003, 3, 1395-1398.	9.1	45
119	Production and EPR characterization of exohedrally perfluoroalkylated paramagnetic lanthanum metallofullerenes: (La@C82)â€“(C8F17)2. Chemical Physics Letters, 2002, 355, 226-232.	2.6	44
120	Solution-Phase Extraction of Ultrathin Inner Shells from Double-Wall Carbon Nanotubes. ACS Nano, 2010, 4, 5807-5812.	14.6	44
121	Template Synthesis of Linearâ€Chain Nanodiamonds Inside Carbon Nanotubes from Bridgeheadâ€Halogenated Diamantane Precursors. Angewandte Chemie - International Edition, 2015, 54, 10802-10806.	13.8	44
122	Metal-Dependent Stability of Pristine and Functionalized Unconventional Dimetallofullerene M₂@I_h-C₈₀. Journal of Physical Chemistry C, 2014, 118, 13953-13958.	3.1	43
123	Formation of protonated ammonia cluster ions: Twoâ€color twoâ€photon ionization study. Journal of Chemical Physics, 1993, 98, 336-341.	3.0	42
124	Synthesis and characterization of single-wall carbon nanotubes by hot-filament assisted chemical vapor deposition. Chemical Physics Letters, 2003, 376, 606-611.	2.6	42
125	Photodissociation of molecular beams of SO2 at 193 nm. Chemical Physics, 1982, 73, 377-382.	1.9	41
126	Twoâ€photonâ€ionization mass spectroscopy of ammonia clusters in a pulsed supersonic nozzle beam. Journal of Chemical Physics, 1983, 79, 1732-1740.	3.0	41

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127	Multiphoton ionization and fragmentations of acetone and cyclic ketones: Effects of one-photon dissociation. Chemical Physics, 1984, 83, 221-233.	1.9	40
128	Observation of the fullerene anions C60â˜' and C70â˜' by electrospray ionization. Rapid Communications in Mass Spectrometry, 1992, 6, 254-256.	1.5	40
129	Observation of triplet state of charge-transfer excitons in C60 thin film. Chemical Physics Letters, 1998, 289, 579-585.	2.6	40
130	Direct HRTEM Observation of Ultrathin Freestanding Ionic Liquid Film on Carbon Nanotube Grid. ACS Nano, 2011, 5, 4902-4908.	14.6	40
131	Short channel field-effect transistors from highly enriched semiconducting carbon nanotubes. Nano Research, 2012, 5, 388-394.	10.4	40
132	Structure and Morphology of Solid C60/C70and C60Grown from Benzene Solution. Japanese Journal of Applied Physics, 1991, 30, 2857-2862.	1.5	39
133	Electron-energy-loss spectra of crystallineC84. Physical Review B, 1994, 49, 5054-5057.	3.2	39
134	Direct EELS observation of the oxidation states of Sm atoms in Sm@C2n metallofullerenes (74â©½2nâ©½84). Journal of Chemical Physics, 2000, 113, 9593-9597.	3.0	39
135	An Anomalous Endohedral Structure of Eu@C82 Metallofullerenes. Angewandte Chemie - International Edition, 2005, 44, 4568-4571.	13.8	39
136	Diameterâ€Dependent Performance of Singleâ€Walled Carbon Nanotube Thinâ€Film Transistors. Advanced Materials, 2011, 23, 4631-4635.	21.0	39
137	Characterization of Six Isomers of [84]Fullerene C84by Electrochemistry, Electron Spin Resonance Spectroscopy, and Molecular Energy Levels Calculations. Journal of Physical Chemistry A, 2001, 105, 4627-4632.	2.5	38
138	An efficient fabrication of vertically aligned carbon nanotubes on flexible aluminum foils by catalyst-supported chemical vapor deposition. Nanotechnology, 2008, 19, 245607.	2.6	38
139	One-Dimensional Confined Motion of Single Metal Atoms inside Double-Walled Carbon Nanotubes. Physical Review Letters, 2009, 102, 195504.	7.8	38
140	Metallofullerenes: Their Formation and Characterization. Materials Science Forum, 1996, 232, 207-232.	0.3	37
141	Tuning spectral properties of fullerenes by substitutional doping. Physical Review B, 2004, 69, .	3.2	37
142	High-Resolution Electron Energy-Loss Spectra of Solid C60. Japanese Journal of Applied Physics, 1991, 30, L1817-L1818.	1.5	36
143	Temperature-Dependent EPR Studies on Isolated Scandium Metallofullerenes: Sc@C82(I, II) and Sc@C84. Journal of Physical Chemistry B, 2000, 104, 7595-7599.	2.6	36
144	Intrafullerene electron transfers in Sm-containing metallofullerenes: Sm@C2n (74 â‰ 2n â‰ 84). Journal of Molecular Graphics and Modelling, 2001, 19, 244-251.	2.4	36

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145	Development of water-soluble metallofullerenes as X-ray contrast media. European Radiology, 2006, 16, 1050-1053.	4.5	36
146	Fabrication and Optical Probing of Highly Extended, Ultrathin Graphene Nanoribbons in Carbon Nanotubes. ACS Nano, 2015, 9, 5034-5040.	14.6	36
147	Electronic and geometric structures of metallofullerene peapods. Physica B: Condensed Matter, 2002, 323, 97-99.	2.7	35
148	Direct imaging of intracage structure in titanium-carbide endohedral metallofullerene. Physical Review B, 2006, 73, .	3.2	35
149	Electron spin coherence in metallofullerenes: Y, Sc, and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>La@C</mml:mtext></mml:mrow><mml:mrow><mml:mn>82</mml:mn> Physical Review B, 2010, 82, .	3.2	35
150	Reactions of metal ions and benzene as studied by the laser ablation-molecular beam method. Pressure and kinetic energy dependences of ion-molecule reactions. Chemical Physics Letters, 1989, 163, 485-489.	2.6	34
151	X-Ray Emission Spectrum of Solid C60. Journal of the Physical Society of Japan, 1991, 60, 2518-2521.	1.6	33
152	Extraction and mass spectroscopic characterization of giant fullerences up to C500. Rapid Communications in Mass Spectrometry, 1992, 6, 413-416.	1.5	33
153	Electric conductivity and band gap of solid C60 under high pressure. Chemical Physics Letters, 1992, 189, 236-240.	2.6	33
154	A new characterization of lanthanum- and scandium-endohedral metallofullerenes. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1993, 19, 25-30.	3.5	33
155	Enhanced Photoluminescence from Very Thin Double-Wall Carbon Nanotubes Synthesized by the Zeolite-CCVD Method. Journal of Physical Chemistry B, 2006, 110, 24816-24821.	2.6	33
156	Fabrication and characterization of high-resolution AFM tips with high-quality double-wall carbon nanotubes. Chemical Physics Letters, 2006, 429, 581-585.	2.6	33
157	Preferential synthesis and isolation of (6,5) single-wall nanotubes from one-dimensional C60 coalescence. Nanoscale, 2011, 3, 4190.	5.6	33
158	Ultrafast energy transfer of one-dimensional excitons between carbon nanotubes: a femtosecond time-resolved luminescence study. Physical Chemistry Chemical Physics, 2012, 14, 1070-1084.	2.8	33
159	Photodissociation of molecular beams of N2O4. Chemical Physics, 1983, 78, 65-74.	1.9	32
160	C84thin films grown epitaxially on mica. Physical Review B, 1993, 48, 9182-9185.	3.2	32
161	The Origin and Mechanism of Non-HPLC Purification of Metallofullerenes with TiCl₄. Journal of Physical Chemistry C, 2012, 116, 25563-25567.	3.1	32
162	Efficient preparation of graphene liquid cell utilizing direct transfer with large-area well-stitched graphene. Chemical Physics Letters, 2016, 650, 107-112.	2.6	32

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163	Observation of biexcitonic emission at extremely low power density in tungsten disulfide atomic layers grown on hexagonal boron nitride. Scientific Reports, 2017, 7, 322.	3.3	32
164	Mass spectroscopic observation of an enhanced structural stability of waterâ€”ammonia binary		

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181	Production and isolation of endohedral strontium- and barium-based mono-metallofullerenes: Sr/Ba@C82 and Sr/Ba@C84. Chemical Physics Letters, 1997, 278, 107-110.	2.6	29
182	Scanning Tunneling Microscopy/Spectroscopy Studies of Lanthanum Endohedral Metallofullerenes. Nano Letters, 2003, 3, 337-341.	9.1	29
183	Electronic structure of Eu atomic wires encapsulated inside single-wall carbon nanotubes. Physical Review B, 2012, 86, .	3.2	29
184	VUV laser photofragmentations of an acrylonitrile molecular beam: Oneâ€; twoâ€; and threeâ€photon processes. Journal of Chemical Physics, 1982, 77, 246-257.	3.0	28
185	Three dissociation channels for p-dichlorobenzene excited at 193 nm in molecular beams. Chemical Physics Letters, 1985, 122, 55-58.	2.6	28
186	Resonance-enhanced 2PI detection of ammonia clusters via a linear reflectron TOF mass spetrometer. Chemical Physics Letters, 1987, 141, 292-296.	2.6	28
187	High-Yield Synthesis of Single-Wall Carbon Nanotubes on MCM41 Using Catalytic Chemical Vapor Deposition of Acetylene. Journal of Physical Chemistry B, 2006, 110, 130-135.	2.6	28
188	Structural Studies of Sc Metallofullerenes by High-resolution Ion Mobility Measurements. Journal of the American Chemical Society, 2001, 123, 6427-6428.	13.7	27
189	Ultraviolet photoelectron spectra of metallofullerenes, two Ca@C82 isomers. Chemical Physics Letters, 2001, 337, 65-71.	2.6	27
190	Determination of Optical Isomers for Left-Handed or Right-Handed Chiral Double-Wall Carbon Nanotubes. Physical Review Letters, 2005, 95, 187406.	7.8	27
191	Molecular Orientation of Individual Lu@C₈₂Molecules Demonstrated by Scanning Tunneling Microscopy. Journal of Physical Chemistry C, 2010, 114, 14704-14709.	3.1	27
192	Crystalline functionalized endohedral C60 metallofullerides. Nature Communications, 2018, 9, 3073.	12.8	27
193	Carbon K-edge X-ray absorption near-edge structures of solid C70. Chemical Physics Letters, 1991, 183, 145-148.	2.6	26
194	A catalytic synthesis and structural characterization of a new [84]fullerene isomer. Chemical Communications, 2001, , 1366-1367.	4.1	26
195	Syntheses of single- and double-wall carbon nanotubes by the HTPAD and HFCVD methods. New Journal of Physics, 2004, 6, 21-21.	2.9	26
196	Production and mass spectroscopic characterization of metallocarbon clusters incorporating Sc, Y, and Ca atoms. International Journal of Mass Spectrometry, 1999, 188, 225-232.	1.5	25
197	Isolation and Spectroscopic Study of a Series of Mono- and Dierbium Endohedral C82and C84Metallofullerenes. Journal of Physical Chemistry B, 2000, 104, 11010-11012.	2.6	25
198	Capturing the Motion of Molecular Nanomaterials Encapsulated within Carbon Nanotubes with Ultrahigh Temporal Resolution. ACS Nano, 2009, 3, 3037-3044.	14.6	25

#	Article	IF	Citations
199	Thin-Film Transistors with Length-Sorted DNA-Wrapped Single-Wall Carbon Nanotubes. Journal of Physical Chemistry C, 2011, 115, 270-273.	3.1	25
200	Momentum-forbidden dark excitons in hBN-encapsulated monolayer MoS2. Npj 2D Materials and Applications, 2019, 3, .	7.9	25
201	Sc2@C76(C2): a new isomerism in fullerene structure. Current Applied Physics, 2002, 2, 141-143.	2.4	24
202	Magnetic Properties and Crystal Structure of Solvent-Free Sc@C82 Metallofullerene Microcrystals. ChemPhysChem, 2007, 8, 1019-1024.	2.1	24
203	Selective Formation of Zigzag Edges in Graphene Cracks. ACS Nano, 2015, 9, 9027-9033.	14.6	24
204	Higher electronically excited states of benzene clusters. Chemical Physics, 1989, 129, 149-162.	1.9	23
205	Intensity gaps in M+ (CH3OH)n as studied by laser ablationâ€"molecular beam method. Chemical Physics Letters, 1992, 200, 435-439.	2.6	23
206	An ESR study of the formation of La@C82 isomers in arc synthesis. Chemical Physics Letters, 1996, 250, 80-84.	2.6	23
207	Luminescence due to intra- and inter-molecular transition in C70 single crystals. Chemical Physics Letters, 1997, 271, 27-32.	2.6	23
208	Fabrication, Purification, and Characterization of Double-Wall Carbon Nanotubes via Pulsed Arc Discharge. Journal of Physical Chemistry C, 2008, 112, 19908-19915.	3.1	23
209	Bright Luminescence and Exciton Energy Transfer in Polymer-Wrapped Single-Walled Carbon Nanotube Bundles. Journal of Physical Chemistry Letters, 2010, 1, 3243-3248.	4.6	23
210	Low voltage electron diffractive imaging of atomic structure in single-wall carbon nanotubes. Applied Physics Letters, 2011, 98, 174103.	3.3	23
211	Application of electrospray ionization to the observation of higher fullerene anions. Rapid Communications in Mass Spectrometry, 1993, 7, 1077-1081.	1.5	22
212	Field Ion-Scanning Tunneling Microscopy of Metallofullerenes Adsorbed on the Si(100)2Ã—1 Surface. Japanese Journal of Applied Physics, 1993, 32, L866-L868.	1.5	22
213	Production of Single-Wall Nanotubes by High-Temperature Pulsed Arc Discharge: Mechanisms of their Production. Japanese Journal of Applied Physics, 1999, 38, L477-L479.	1.5	22
214	Photooxidation of Olefins Sensitized by Bisazafullerene (C59N)2and Hydroazafullerene C59HN:Â Product Analysis, Emission of Singlet Oxygen, and Transient Absorption Spectroscopy. Journal of Organic Chemistry, 2001, 66, 8026-8029.	3.2	22
215	Ultraviolet photoelectron spectra of Ti2@C80. Chemical Physics Letters, 2004, 397, 169-173.	2.6	22
216	Synthesis, enhanced stability and structural imaging of C60 and C70 double-wall carbon nanotube peapods. Chemical Physics Letters, 2007, 441, 94-99.	2.6	22

#	Article	IF	Citations
217	Imidazolium modified carbon nanohorns: switchable solubility and stabilization of metal nanoparticles. Journal of Materials Chemistry, 2010, 20, 2959.	6.7	22
218	A mass spectroscopic study of water association in acetonitrile by a new liquid expansion method. Chemical Physics Letters, 1985, 122, 599-604.	2.6	21
219	Transmission electron microscopy and electron energy loss spectroscopy of C60 fullerite. Ultramicroscopy, 1992, 41, 1-9.	1.9	21
220	Field Ion-Scanning Tunneling Microscopy Study of C84on the Si(100) Surface. Japanese Journal of Applied Physics, 1993, 32, L132-L134.	1.5	21
221	Ultraviolet photoelectron spectra of Sc@C82. Chemical Physics Letters, 1999, 300, 145-151.	2.6	21
222	Organic Chemistry with Heterofullerenes:â€‰ Photosensitized Oxygenation of Alkenes. Organic Letters, 2000, 2, 3551-3554.	4.6	21
223	Magnetic Anisotropy of Cerium Endohedral Metallofullerenes. Journal of Physical Chemistry B, 2003, 107, 6965-6973.	2.6	21
224	Fabrication of single-wall carbon nanotubes within the channels of a mesoporous material by catalyst-supported chemical vapor deposition. Carbon, 2009, 47, 722-730.	10.3	21
225	Electron microscopy of fullerene thin films grown on solid surfaces. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1993, 19, 18-24.	3.5	20
226	Rate Correlation of Photoinduced Electron Transfer to C70. Chemistry Letters, 1993, 22, 789-792.	1.3	20
227	Preparation and Supramolecular Properties of Unadulterated Glycosyl Liposomes from a Bis(Î±-D-mannopyranosyl)ï£¿[60]Fullerene Conjugate. Chemistry and Biodiversity, 2005, 2, 1232-1241.	2.1	20
228	Structure of Tm2 and Tm2C2 encapsulated in low-symmetry C82(Cs(6)) fullerene cage by single crystal X-ray diffraction. Chemical Physics Letters, 2014, 600, 38-42.	2.6	20
229	Near-Infrared Photoluminescence Properties of Endohedral Mono- and Dithulium Metallofullerenes. ACS Nano, 2016, 10, 4282-4287.	14.6	20
230	Extended-conjugation Ï€-electron systems in carbon nanotubes. Scientific Reports, 2018, 8, 8098.	3.3	20
231	Efficient growth and characterization of one-dimensional transition metal tellurides inside carbon nanotubes. Nanoscale, 2020, 12, 17185-17190.	5.6	20
232	Zeroâ€field ODMR studies of the T1 states of bromineâ€containing 1,4â€dihalobenzenes. Journal of Chemical Physics, 1980, 72, 4445-4457.	3.0	19
233	Title is missing!. Structural Chemistry, 2003, 14, 23-38.	2.0	19
234	MoirÃ© image patterns on double-walled carbon nanotubes observed by scanning tunneling microscopy. Physical Review B, 2009, 79, .	3.2	19

#	Article	IF	Citations
235	Photoreactivity Preservation of AgBr Nanowires in Confined Nanospaces. Advanced Materials, 2010, 22, 3156-3160.	21.0	19
236	Excitedâ€State Charge Transfer in Covalently Functionalized MoS₂ with a Zinc Phthalocyanine Donorâ€“Acceptor Hybrid. Angewandte Chemie, 2019, 131, 5768-5773.	2.0	19
237	Structure sequence and possible superconductivity in potassium-doped fullereneC70Kx. Physical Review B, 1993, 48, 16877-16880.	3.2	18
238	Structural Stability and Transformation of Aligned C60and C70Fullerenes in Double-Wall and Triple-Wall Carbon Nanotube-Peapods. Journal of Physical Chemistry C, 2007, 111, 14652-14657.	3.1	18
239	Rayleigh scattering studies on inter-layer interactions in structure-defined individual double-wall carbon nanotubes. Nano Research, 2014, 7, 1548-1555.	10.4	18
240	Electron Energy Loss Spectrum Near Carbon K-Edge in Solid C60. Japanese Journal of Applied Physics, 1991, 30, L1145-L1147.	1.5	17
241	Synthesis and characterization of multi- and single-wall carbon nanotubes by the catalytic vapor deposition method. Molecular Crystals and Liquid Crystals, 2002, 387, 93-98.	0.9	17
242	Controlling intermolecular spin interactions of La@C82 in empty fullerene matrices. Physical Chemistry Chemical Physics, 2010, 12, 1618.	2.8	17
243	Transient Absorption Kinetics Associated with Higher Exciton States in Semiconducting Single-Walled Carbon Nanotubes: Relaxation of Excitons and Phonons. Journal of Physical Chemistry C, 2013, 117, 20289-20299.	3.1	17
244	A Structural Diagnostics Diagram for Metallofullerenes Encapsulating Metal Carbides and Nitrides. Journal of the American Chemical Society, 2013, 135, 918-923.	13.7	17
245	Structure of Tm@C₈₂(I) Metallofullerene by Single-Crystal X-ray Diffraction Using the 1:2 Co-Crystal with Octaethylporphyrin Nickel (Ni(OEP)). Journal of Physical Chemistry C, 2013, 117, 6437-6442.	3.1	17
246	Photodissociation channels for pentafluorochlorobenzene excited at 193 nm in molecular beams. Chemical Physics Letters, 1986, 125, 263-266.	2.6	16
247	Acuminated fluorescence of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si20.gif" display="inline" overflow="scroll"><mml:mrow><mml:msup><mml:mrow><mml:mtext>Er</mml:mtext></mml:mrow><mml:mrow><mml:mn>3 centres in endohedral fullerenes through the incarceration of a carbide cluster. Chemical Physics Letters, 2009, 476, 41-45.	2.6	16
248	Molecular recognition of La@C82 endohedral metallofullerene by an isophthaloyl-bridged porphyrin dimer. Tetrahedron Letters, 2010, 51, 5896-5899.	1.4	16
249	Ultraviolet photoelectron spectra of Er2@C82 (I), Er2@C82 (III), Er2C2@C82 (I) and Er2C2@C82 (III). Chemical Physics, 2012, 397, 87-91.	1.9	16
250	Chirally selective growth and extraction of single-wall carbon nanotubes via fullerene nano-peapods. RSC Advances, 2013, 3, 16954.	3.6	16
251	Photophysics in Single-Walled Carbon Nanotubes with (6,4) Chirality at High Excitation Densities: Bimolecular Auger Recombination and Phase-Space Filling of Excitons. Journal of Physical Chemistry C, 2013, 117, 1974-1981.	3.1	16
252	Synthesis and TEM structural characterization of C60-flattened carbon nanotube nanopeapods. Nano Research, 2014, 7, 1843-1848.	10.4	16

#	Article	IF	Citations
253	Ultrafast Energy Transfer from Fluorene Polymers to Single-Walled Carbon Nanotubes in Wrapped Carbon Nanotube Bundles. Journal of Physical Chemistry C, 2016, 120, 4647-4652.	3.1	16
254	Concise, Singleâ€Step Synthesis of Sulfurâ€Enriched Graphene: Immobilization of Molecular Clusters and Battery Applications. Angewandte Chemie - International Edition, 2020, 59, 7836-7841.	13.8	16
255	Chemiluminescent reactions studied by laser ablation. Detection of AlO (B 2Î£+) in the Al + O2 system. Chemical Physics Letters, 1990, 174, 71-74.	2.6	15
256	Azafullerene (C59N)2 thin-film field-effect transistors. Applied Physics Letters, 2004, 84, 2154-2156.	3.3	15
257	Does an Encapsulated Atom â€˜feel' the Effects of Adsorption?: X-ray Standing Wave Spectroscopy of Ce@C82on Ag(111). Nano Letters, 2004, 4, 361-364.	9.1	15
258	Synthesis of single-wall carbon nanotubes grown from size-controlled Rh/Pd nanoparticles by catalyst-supported chemical vapor deposition. Chemical Physics Letters, 2008, 458, 346-350.	2.6	15
259	Growth of large-diameter (â¼4 nm) single-wall carbon nanotubes in the nanospace of mesoporous material SBA-15. Carbon, 2011, 49, 5173-5179.	10.3	15
260	All-Carbon Nanosized Hybrid Materials: Fluorescent Carbon Dots Conjugated to Multiwalled Carbon Nanotubes. Journal of Physical Chemistry C, 2016, 120, 8550-8558.	3.1	15
261	Experimental evidence of the magic number stability of the hydrated ammonia cluster ions (H2O)(NH3)0â€“4NH4+. Chemical Physics Letters, 1988, 153, 417-421.	2.6	14
262	Ionization and fragmentation of C60 by gas-phase fast-atom bombardment using He, Ar and Xe beams. International Journal of Mass Spectrometry and Ion Processes, 1993, 123, R7-R11.	1.8	14
263	A Review on Endohedral Metallofullerenes: Structures and Properties. Fullerenes, Nanotubes, and Carbon Nanostructures, 1997, 5, 829-838.	0.6	14
264	Determining C2 binding energies from KERDs for C80+ and C82+ fullerenes and their endohedrals. International Journal of Mass Spectrometry, 2003, 228, 181-190.	1.5	14
265	Uniform carbon-nanotube emitter for field-emission displays. Journal of the Society for Information Display, 2005, 13, 727.	2.1	14
266	Correlation between atomic rearrangement in defective fullerenes and migration behavior of encaged metal ions. Physical Review B, 2006, 73, .	3.2	14
267	Determining exact molar absorbance coefficients of single-wall carbon nanotubes. Physical Chemistry Chemical Physics, 2009, 11, 1091.	2.8	14
268	Fabrication of a Carbonâ€Nanotubeâ€Based Fieldâ€Effect Transistor by Microcontact Printing. Small, 2012, 8, 2258-2263.	10.0	14
269	Nano-Saturn: Energetics of the Inclusion Process of C₆₀ into Cyclohexabiphenylene. Journal of Physical Chemistry C, 2015, 119, 8931-8936.	3.1	14
270	Selective High-Yield Catalytic Synthesis of Terbium Metallofullerenes and Single-Wall Carbon Nanotubes. Journal of Physical Chemistry B, 2003, 107, 2485-2489.	2.6	13

#	Article	IF	Citations
271	Ultraviolet photoelectron spectra of Tb@C82. Chemical Physics Letters, 2004, 398, 389-392.	2.6	13
272	Structure and physical properties of iodine-doped fullerenes. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1993, 19, 100-104.	3.5	12
273	Electronic absorption and vibrational spectroscopy of azafullerene C59HN and its oxide C59HNO. Perkin Transactions II RSC, 2000, , 2361-2362.	1.1	12
274	Metal catalyst-free mist flow chemical vapor deposition growth of single-wall carbon nanotubes using C60 colloidal solutions. Carbon, 2014, 68, 80-86.	10.3	12
275	Core-Level Spectroscopy to Probe the Oxidation State of Single Europium Atoms. Physical Review Letters, 2015, 114, 197602.	7.8	12
276	Single atom spectroscopy: Decreased scattering delocalization at high energy losses, effects of atomic movement and X-ray fluorescence yield. Ultramicroscopy, 2016, 160, 239-246.	1.9	12
277	Ultrafast Charge Transfer and Relaxation Dynamics in Polymer-Encapsulating Single-Walled Carbon Nanotubes: Polythiophene and Coronene Polymer. Journal of Physical Chemistry C, 2018, 122, 16940-16949.	3.1	12
278	Turning On the Near-Infrared Photoluminescence of Erbium Metallofullerenes by Covalent Modification. Inorganic Chemistry, 2019, 58, 14325-14330.	4.0	12
279	Minimal inflammogenicity of pristine single-wall carbon nanotubes. Nagoya Journal of Medical Science, 2015, 77, 195-202.	0.3	12
280	The electronically excited Ãƒ states of ammonia clusters as revealed by two-photon ionization mass spectroscopy. Chemical Physics Letters, 1986, 130, 231-235.	2.6	11
281	Observation of Highly Endoergic Chemiluminescent Reactions on Laser Ablation of Metals. Detection of AlH (A1Î), AlN (A3Îi), AlO (B2Î£+) and MgO (B1Î£+) in Al + NH3, Al + H2O, and Mg + O2Systems. Chemistry Letters, 1993, 22, 1203-1206.	1.3	11
282	Contact Potential Measurement of Carbon Nanotube by Kelvin Probe Force Microscopy. Japanese Journal of Applied Physics, 2003, 42, 2449-2452.	1.5	11
283	SYNTHESIS AND SPECTROSCOPIC CHARACTERIZATION OF SALMON DNA-WRAPPED SINGLE-WALL CARBON NANOTUBES. Nano, 2007, 02, 295-299.	1.0	11
284	Ultraviolet photoelectron spectra of Ce2@C80 and La2@C80. Chemical Physics, 2015, 447, 71-75.	1.9	11
285	Peapods: Exploring the inner space of carbon nanotubes. Japanese Journal of Applied Physics, 2018, 57, 020101.	1.5	11
286	Rock-salt and helix structures of silver iodides under ambient conditions. National Science Review, 2019, 6, 767-774.	9.5	11
287	Decomposition of Merocyanine Aggregates into Monomers in UV-Irradiated Spiropyran Solutions as Revealed in Anomalous Absorption Decay at the Merocyanine Monomer Band. Chemistry Letters, 1991, 20, 1205-1208.	1.3	10
288	Atomic Force Microscopy and Kelvin Probe Force Microscopy Measurements of Semiconductor Surface Using Carbon Nanotube Tip Fabricated by Electrophoresis. Japanese Journal of Applied Physics, 2002, 41, 2615-2619.	1.5	10

#	Article	IF	Citations
289	Enrichment of Small-Diameter Double-Wall Carbon Nanotubes Synthesized by Catalyst-Supported Chemical Vapor Deposition Using Zeolite Supports. Japanese Journal of Applied Physics, 2007, 46, 1797-1802.	1.5	10
290	Ultraviolet photoelectron spectra of mono-metal endohedral fullerene Er@C82 (I). Chemical Physics, 2010, 378, 11-13.	1.9	10
291	Ultrafast luminescence kinetics of metallic single-walled carbon nanotubes: Possible evidence for excitonic luminescence. Physical Review B, 2012, 85, .	3.2	10
292	Large fullerenes in mass spectra. Molecular Physics, 2015, 113, 2359-2361.	1.7	10
293	Formation of Rotationally Highly Excited NH (A³) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 587 Td (<l Reactive Quenching by Foreign Gases. The Review of Laser Engineering, 1982, 10, 394-399.	0.0	10
294	Photodissociation of Tetramethyltin at 193 nm. Laser Chemistry, 1987, 7, 109-117.	0.5	9
295	Long-lived Colored Merocyanine Conformers in the Aggregates Formed on UV Irradiation of Spiropyran. A Raman Spectroscopic Study. Chemistry Letters, 1990, 19, 1809-1812.	1.3	9
296	Surface-induced fragmentation of higher fullerenes and endohedral metallofullerenes. Journal of Chemical Physics, 1999, 110, 9681-9687.	3.0	9
297	Novel singlet oxygen generators: the nature and the number of trapped metal atoms in endohedral metallofullerenes M@C82 (M=Dy, Gd, La) and Dy2@C2n (2n=84â€“94). Physical Chemistry Chemical Physics, 2001, 3, 3200-3202.	2.8	9
298	Fabrication Technique for Carbon Nanotube Single-Electron Transistors Using Focused Ion Beam. Japanese Journal of Applied Physics, 2004, 43, 5669-5670.	1.5	9
299	Fabrication and Characterization of Peapod Field-Effect Transistors Using Peapods Synthesized Directly on Si Substrate. Japanese Journal of Applied Physics, 2005, 44, L1341-L1343.	1.5	9
300	In pursuit of nanocarbons. Chemical Record, 2012, 12, 296-305.	5.8	9
301	Thermal/electron irradiation assisted coalescence of Sc3N@C80 fullerene in carbon nanotube and evidence of charge transfer between pristine/coalesced fullerenes and nanotubes. Nanoscale, 2013, 5, 11755.	5.6	9
302	Synthesis of Long-chain Polythiophene inside Carbon Nanotubes. Chemistry Letters, 2018, 47, 1022-1025.	1.3	9
303	La@C₈₂ as a spinâ€active filling of SWCNTs: ESR study of magnetic and photophysical properties. Physica Status Solidi (B): Basic Research, 2008, 245, 2042-2046.	1.5	8
304	Electronic Structure of Yttrium and Carbon Atoms Encapsulated Metallofullerenes, Y2C2@C82: Ultraviolet Photoelectron Spectroscopy and Theoretical Calculation. Bulletin of the Chemical Society of Japan, 2009, 82, 963-967.	3.2	8
305	Exchange interactions of spin-active metallofullerenes in solid-state carbon networks. Physical Review B, 2010, 81, .	3.2	8
306	Photoelectron Spectroscopy of Sc₃N@C₇₈. Journal of Physical Chemistry C, 2012, 116, 165-170.	3.1	8

#	Article	IF	Citations
307	Development of Gd₃N@C₈₀ encapsulated redox nanoparticles for high-performance magnetic resonance imaging. Journal of Biomaterials Science, Polymer Edition, 2017, 28, 1036-1050.	3.5	8
308	Non-Chromatographic Purification of Endohedral Metallofullerenes. Molecules, 2017, 22, 718.	3.8	8
309	Growth of mm-Long Carbon Nanotubes by Grid-Inserted Plasma-Enhanced Chemical Vapor Deposition. Japanese Journal of Applied Physics, 2005, 44, 1554-1557.	1.5	8
310	Production and degradation of multiply charged C60 ions. Organic Mass Spectrometry, 1993, 28, 61-62.	1.3	7
311	Photodissociation of multilayered trimethylaluminum adsorbed on a cryogenic substrate: A time-of-flight mass-spectrometric study. Applied Organometallic Chemistry, 1993, 7, 303-309.	3.5	7
312	Production and mass spectroscopic characterization of multiple metal-rich alkali halide clusters. Chemical Physics Letters, 1997, 281, 57-62.	2.6	7
313	Surface-induced dissociation of lanthanum metallofullerenes on a fluorinated self-assembled monolayer film. Chemical Physics Letters, 1999, 304, 211-216.	2.6	7
314	XAFS study on metal endohedral fullerenes. Journal of Synchrotron Radiation, 2001, 8, 551-553.	2.4	7
315	Quantitative Analysis of Isolated Single-Wall Carbon Nanotubes with Their Molar Absorbance Coefficients. Journal of Nanomaterials, 2014, 2014, 1-7.	2.7	7
316	Bandâ€Gap Engineering of Graphene Heterostructures by Substitutional Doping with B 3 N 3. ChemPhysChem, 2018, 19, 237-242.	2.1	7
317	Isolation and structure determination of missing fullerenes Gd@C ₇₄ (CF ₃) _n through in situ trifluoromethylation. Royal Society Open Science, 2018, 5, 181015.	2.4	7
318	Study on Phase Transition of C60through Fourier-Transform Infrared Spectroscopic Measurements. Journal of the Physical Society of Japan, 1993, 62, 1427-1430.	1.6	7
319	Simple Rhombohedral Structure of C70under High Pressure. Japanese Journal of Applied Physics, 1993, 32, L101-L103.	1.5	6
320	Crystal Structure of C70under High Pressure: Effect of Alloying. Journal of the Physical Society of Japan, 1994, 63, 2445-2446.	1.6	6
321	Solid phase extraction as a simple method for the enrichment of endohedral metallofullerenes. Tetrahedron Letters, 1996, 37, 9249-9252.	1.4	6
322	Ultraviolet Photoelectron Spectra of Mono Metal Atom Encapsulated Fullerenes. Molecular Crystals and Liquid Crystals, 2000, 340, 643-648.	0.3	6
323	Formation of Secondary Thin Carbon Nanotubes on Thick Ones and Improvement in Field-Emission Uniformity. Japanese Journal of Applied Physics, 2006, 45, 5307-5310.	1.5	6
324	Ultraviolet photoelectron spectra of Lu atoms encapsulated C2â€“C82 fullerenes. Chemical Physics Letters, 2013, 555, 222-225.	2.6	6

#	Article	IF	Citations
325	Ionization of NO2 clusters in a supersonic nozzle beam: appearance of the odd-number cluster ions of NO2. Chemical Physics Letters, 1985, 121, 223-227.	2.6	5
326	Resonance-enhanced two-photon ionization spectra of benzene in the third channel region. Chemical Physics Letters, 1988, 146, 83-88.	2.6	5
327	Reactions of Metal Ions (M+) with Chromium Hexacarbonyl as Studied by Laser Ablation-Molecular Beam Method. Distinct Difference between the First and Second Series of Transition Metals Revealed in the Distribution of Product Ions [MCr(CO)n]+(n = 0â€“6). Chemistry Letters, 1991, 20, 917-920.	1.3	5
328	Production and characterization of thermally-annealed large clusters by high-pressure laser-vaporization technique. Zeitschrift FÃ¼r Physik D-Atoms Molecules and Clusters, 1997, 40, 131-135.	1.0	5
329	Production and mass spectroscopic characterization of ammonium halide clusters. Chemical Physics Letters, 1997, 264, 327-332.	2.6	5
330	Ultraviolet Photoelectron Spectroscopy of Two Titanium Metal Atoms Encapsulated Metallofullerenes, Ti2@C80 and Ti2@C84. Fullerenes Nanotubes and Carbon Nanostructures, 2005, 12, 33-39.	2.1	5
331	Controlling growth and Raman spectra of individual suspended single-walled carbon nanotubes. Journal of Physics and Chemistry of Solids, 2007, 68, 284-289.	4.0	5
332	CONTROLLABLE CHEMICAL VAPOR DEPOSITION SYNTHESIS OF SINGLE-WALL CARBON NANOTUBES USING MIST FLOW METHOD. Nano, 2012, 07, 1250045.	1.0	5
333	Electronic structure of Sc3N@C68. Chemical Physics, 2013, 421, 39-43.	1.9	5
334	Microscopic Mechanism of Van der Waals Heteroepitaxy in the Formation of MoS2/hBN Vertical Heterostructures. ACS Omega, 2020, 5, 31692-31699.	3.5	5
335	UHV-STM/STS Studies of Endohedral La-Metallofullerenes on Hydrogen Terminated Si(100)2Ã—1. E-Journal of Surface Science and Nanotechnology, 2004, 2, 89-92.	0.4	5
336	Pulsed Molecular Beam Apparatus for the Study of Molecular Photofragmentation Processes. Shinku/Journal of the Vacuum Society of Japan, 1981, 24, 196-198.	0.2	5
337	A Scandium Carbide Endohedral Metallofullerene: (Sc(2)C(2))@C(84) H.S. thanks the JSPS for Future Program on New Carbon Nano-Materials for financial support of the present study. The synchrotron radiation experiments were performed at SPring-8 BL02B2 with the approval of the Japan Synchrotron Radiation Research Institute (JASRI).. Angewandte Chemie - International Edition, 2001, 40, 397-399.	13.8	5
338	Production, isolation and spectroscopic studies of the endohedral fullerene Sc2@C80 (I-III). Particuology: Science and Technology of Particles, 2004, 2, 189-191.	0.4	4
339	Scanning Tunneling Microscopy/Spectroscopy of La2@C72Multilayer Islands on Si(100)-2Ã—1-H Surfaces. Japanese Journal of Applied Physics, 2005, 44, 3226-3234.	1.5	4
340	SOLID-STATE ¹³C AND ⁴⁵Sc NMR STUDIES ON ENDOHEDRAL SCANDIUM-CARBIDE METALLOFULLERENES: A MOTIONAL DYNAMICS OF Sc ATOMS IN FULLERENES. Nano, 2008, 03, 21-25.	1.0	4
341	STM TIP-CURRENT-INDUCED POLYMERIZATION OF C₆₀, Ce₂@C₈₀ AND Lu₂@C₇₆. Nano, 2009, 04, 281-287.	1.0	4
342	Irregular Modulation of Density-of-States of Nano-Peapods Encapsulating Gd@C₈₂Metallofullerenes. Journal of Physical Chemistry C, 2011, 115, 3968-3972.	3.1	4

#	Article	IF	Citations
343	Perfectly Ordered Two-Dimensional Layer Structures Found in Some Endohedral Metallofullerenes. Crystal Growth and Design, 2013, 13, 3632-3636.	3.0	4
344	Element-selective charge density visualization of endohedral metallofullerenes using synchrotron X-ray multi-wavelength anomalous powder diffraction data. Journal of Applied Crystallography, 2013, 46, 649-655.	4.5	4
345	Organicâ€“Inorganic Azafullereneâ€Gold C₅₉Nâ€Au Nanohybrid: Synthesis, Characterization, and Properties. Chemistry - A European Journal, 2014, 20, 14729-14735.	3.3	4
346	Direct observation of zipper-like wall-to-wall coalescence of double-wall carbon nanotubes. Carbon, 2014, 71, 159-165.	10.3	4
347	Thermal Conductivity of M@C₈₂ [M = Dy, Gd] Thin Films. Journal of Physical Chemistry C, 2017, 121, 3642-3647.	3.1	4
348	Capturing the Unconventional Metallofullerene M@C₆₆ by Trifluoromethylation: A Theoretical Study. ChemPhysChem, 2017, 18, 3007-3011.	2.1	4
349	Bottom-up microwave-assisted preparation of poly(methacrylic acid)-MoS2 hybrid material. Chemical Physics Letters, 2019, 716, 1-5.	2.6	4
350	Fragmentation of hydrogen-bonded molecular clusters on photoionization. Faraday Discussions of the Chemical Society, 1986, 82, 359.	2.2	3
351	One-Color and Two-Color Resonance-Enhanced Two-Photon Ionization Studies of Benzene: Sudden Drop of Photoionization Yield at the Onset of the Third Channel Region. Bulletin of the Chemical Society of Japan, 1992, 65, 234-243.	3.2	3
352	Ion Formation and Degradation of C70by Gas-Phase Fast-Atom Bombardment with Helium Beam. Fullerenes, Nanotubes, and Carbon Nanostructures, 1994, 2, 165-171.	0.6	3
353	Unsynchronized Diameter Changes of Doubleâ€Wall Carbon Nanotubes during Chemical Vapour Deposition Growth. Chemistry - an Asian Journal, 2009, 4, 955-960.	3.3	3
354	A new AFMâ€“HRTEM combined technique for probing isolated carbon nanotubes. Nanotechnology, 2009, 20, 225702.	2.6	3
355	STM and STS Studies on the Density of States Modulation of Pr@C₈₂ and Sc₃C₂@C₈₀ Binary-Metallofullerene Peapods. Journal of Physical Chemistry C, 2013, 117, 6966-6971.	3.1	3
356	Determining addition pathways and stable isomers for CF 3 functionalization of endohedral Gd@C 60. Royal Society Open Science, 2018, 5, 180588.	2.4	3
357	High Resolution CNT-FED and Improvement in Field-Emission Characteristics. IEEJ Transactions on Sensors and Micromachines, 2007, 127, 170-176.	0.1	3
358	Photofragment energy distributions of p-dichlorobenzene molecular beam excited by linearly polarized light at 193 nm.. Journal of the Spectroscopical Society of Japan, 1986, 35, 299-302.	0.0	3
359	Two-color 2 + 2 photon resonance-enhanced ionization of benzene-carbon tetrachloride binary clusters. International Journal of Mass Spectrometry and Ion Processes, 1990, 102, 99-113.	1.8	2
360	Magnetic Susceptibility and X-Ray Diffraction Studies on the Growth and Disappearance Processes of the Superconducting Phase in C60Kx. Japanese Journal of Applied Physics, 1992, 31, L1051-L1053.	1.5	2

#	Article	IF	Citations
361	Synthesis of carbon nanotubes by arc discharge. Tanso, 2006, 2006, 355-363.	0.1	2
362	52.4: Formation of Secondary Thin CNTs on Thick CNTs for FED Emitters. Digest of Technical Papers SID International Symposium, 2006, 37, 1646.	0.3	2
363	Infra-red and Raman spectroscopic study on the thermal stability and high temperature transformation of hydroazafullerene C59HN. Carbon, 2006, 44, 1420-1424.	10.3	2
364	Interaction Control Between Endohedral Metallofullerene and Metal Substrate by Introducing Alkanethiol Self-Assembled Monolayer. Journal of Nanoscience and Nanotechnology, 2006, 6, 3460-3463.	0.9	2
365	Chemically Induced, Thermally Controlled Peelâ€Off of the External Walls of Doubleâ€Walled Carbon Nanotubes. Small, 2010, 6, 2826-2831.	10.0	2
366	Synthesis of Single-Walled Carbon Nanotubes Through Micropores of Surface-Treated Zeolites by Catalyst-Supported Chemical Vapor Deposition. Journal of Nanoscience and Nanotechnology, 2010, 10, 3919-3923.	0.9	2
367	Trion dynamics in hole-doped single-walled carbon nanotubes. , 2013, , .		2
368	Ultraviolet photoelectron spectra of Sc3C2@C80. Chemical Physics Letters, 2015, 634, 98-100.	2.6	2
369	CF₂â€Bridged C₆₀ Fullerene Dimers and their Optical Transitions. ChemPhysChem, 2017, 18, 3540-3543.	2.1	2
370	Modulation of the Local Density of States of Carbon Nanotubes by Encapsulation of Europium Nanowires As Observed by Scanning Tunneling Microscopy and Spectroscopy. Journal of Physical Chemistry C, 2017, 121, 18195-18201.	3.1	2
371	Temperature and pressure induced Raman studies of C60 oxide. Journal of Applied Physics, 2018, 124, .	2.5	2
372	Photodissociation of zinc diiodide in the gas phase. Journal of Photochemistry and Photobiology A: Chemistry, 1992, 65, 345-353.	3.9	1
373	Production and Mass-Spectroscopic Characterization of Multiple Metal-Rich Alkali Halide Ion Clusters: Novel Structures and Properties. Bulletin of the Chemical Society of Japan, 2000, 73, 569-573.	3.2	1
374	Synthesis and EPR Characterization of Exohedrally Perfluoroalkylated Paramagnetic Lanthanum Metallofullerenes: A Fluorous Phase Approach. AIP Conference Proceedings, 2002, , .	0.4	1
375	Synthesis of Single- and Double-Wall Carbon Nanotubes by Gas Flow-Modified Catalyst-Supported Chemical Vapor Deposition. IEICE Transactions on Electronics, 2009, E92-C, 1483-1486.	0.6	1
376	Scanning tunnelling spectroscopy on the local electronic structure of Gd@C₈₂ peapods. Physica Status Solidi (B): Basic Research, 2010, 247, 3030-3032.	1.5	1
377	Carbon nanotubes: Chemically Induced, Thermally Controlled Peel-Off of the External Walls of Double-Walled Carbon Nanotubes (Small 24/2010). Small, 2010, 6, 2774-2774.	10.0	1
378	Metallofullerenes. Fundamental Theories of Physics, 2011, 41, 95-156.	0.3	1

#	Article	IF	Citations
379	Observation and Characterization of Fragile Organometallic Molecules Encapsulated in Single-Wall Carbon Nanotubes. Journal of Nanomaterials, 2014, 2014, 1-5.	2.7	1
380	Another big discoveryâ€"metallofullerenes. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20150325.	3.4	1
381	Structure Sequence and Physical Properties of Rubidium Fulleride C70Rbx. Materials Research Society Symposia Proceedings, 1994, 359, 313.	0.1	0
382	Fullerene radicals, electrochemistry and electron spin resonance: Part A: Anomalous rotational dependence of the ESR signals of single crystals of [C[sub 70]][I][(C[sub 6]H[sub 5])[sub 4]P][sub 2] Part B: Electrochemical and ESR characterization of mono-anionic radicals of four minor isomers of C[sub 84]: [84]C[sub 1], [84]C[sub s](V), [84]D[sub 2d](I) and [84]D[sub 2](III). , 1998, , .		0
383	Magnetic Anisotropy of Cerium Endohedral Metallofullerene. Materials Research Society Symposia Proceedings, 2001, 706, 1.	0.1	0
384	Hetero- and homo- [70] fullerene dimers: (C[sub 69]N)[sub 2] and (C[sub 70])[sub 2]. AIP Conference Proceedings, 2001, , .	0.4	0
385	Quantum Chemical Study on La2@C80 : Configuration of Endohedral Metals. AIP Conference Proceedings, 2004, , .	0.4	0
386	Carbon Nanotubes Encapsulating Atoms and Molecules. Hyomen Kagaku, 2012, 33, 563-568.	0.0	0
387	The Early Days of Metallofullerene Research. , 2014, , 1-18.		0
388	20-kV Diffractive Imaging of Graphene by using an SEM-based Dedicated Microscope. Microscopy and Microanalysis, 2015, 21, 35-36.	0.4	0
389	Exciton Diffusion in hBN-encapsulated Monolayer MoSe2. , 2019, , .		0
390	The Endohedral Metallofullerene Y@C82.. Nihon Kessho Gakkaishi, 1996, 38, 244-248.	0.0	0
391	Production of Carbon Clusters by Means of Arc Discharge and Their Application. 2. Production of Endohedral Metallofullerenes via DC-Arc Discharge.. Journal of Plasma and Fusion Research, 1999, 75, 902-907.	0.4	0
392	Placing and imaging individual carbon nanotubes on Cu(111) clean surface using in situ pulsed-jet deposition-STM technique. Journal of Nanoscience and Nanotechnology, 2007, 7, 4267-71.	0.9	0