Alexey A Popov

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/6030462/publications.pdf

Version: 2024-02-01

		22153	45317
297	11,117	59	90
papers	citations	h-index	g-index

327	327	327	5838
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Endohedral Fullerenes. Chemical Reviews, 2013, 113, 5989-6113.	47.7	1,103
2	Free-Standing Single-Atom-Thick Iron Membranes Suspended in Graphene Pores. Science, 2014, 343, 1228-1232.	12.6	274
3	Structure, Stability, and Cluster-Cage Interactions in Nitride Clusterfullerenes M₃N@C₂_n (M = Sc, Y; 2n = 68â˜'98):â€‰ a Density Functional Theory Study. Journal of the American Chemical Society, 2007, 129, 11835-11849.	13.7	244
4	Single molecule magnet with an unpaired electron trapped between two lanthanide ions inside a fullerene. Nature Communications, 2017, 8, 16098.	12.8	189
5	An Endohedral Single-Molecule Magnet with Long Relaxation Times: DySc₂N@C₈₀. Journal of the American Chemical Society, 2012, 134, 9840-9843.	13.7	188
6	Metal Sulfide in a C₈₂Fullerene Cage: A New Form of Endohedral Clusterfullerenes. Journal of the American Chemical Society, 2010, 132, 5413-5421.	13.7	162
7	Bonding in Endohedral Metallofullerenes as Studied by Quantum Theory of Atoms in Molecules. Chemistry - A European Journal, 2009, 15, 9707-9729.	3.3	155
8	Violating the Isolated Pentagon Rule (IPR): The Endohedral Non-IPR C70 Cage of Sc3N@C70. Angewandte Chemie - International Edition, 2007, 46, 1256-1259.	13.8	149
9	Electrochemical, Spectroscopic, and DFT Study of C₆₀(CF₃)_n Frontier Orbitals (n = 2â˜'18):â€‰ The Link between Double Bonds in Pentagons and Reduction Potentials. Journal of the American Chemical Society, 2007, 129, 11551-11568.	13.7	145
10	Deviation from the Planaritya Large Dy3N Cluster Encapsulated in anIh-C80Cage:Â An X-ray Crystallographic and Vibrational Spectroscopic Study. Journal of the American Chemical Society, 2006, 128, 16733-16739.	13.7	129
11	Helical Nanographenes Containing an Azulene Unit: Synthesis, Crystal Structures, and Properties. Angewandte Chemie - International Edition, 2020, 59, 5637-5642.	13.8	128
12	Synthesis of NBN-Type Zigzag-Edged Polycyclic Aromatic Hydrocarbons: 1,9-Diaza-9a-boraphenalene as a Structural Motif. Journal of the American Chemical Society, 2016, 138, 11606-11615.	13.7	121
13	Trifluoromethyl Derivatives of Insoluble Small-HOMOâ˜'LUMO-Gap Hollow Higher Fullerenes. NMR and DFT Structure Elucidation ofC2-(C74-D3h)(CF3)12,Cs-(C76-Td(2))(CF3)12,C2-(C78-D3h(5))(CF3)12,Cs-(C80-C2v(5))(CF3)12, andC2-(C82-C2(5))(CF3)12. Journal of the American Chemical Society, 2006, 128, 15793-15798.	13.7	118
14	Air-stable redox-active nanomagnets with lanthanide spins radical-bridged by a metalâ€“metal bond. Nature Communications, 2019, 10, 571.	12.8	112
15	The Role of an Asymmetric Nitride Cluster on a Fullerene Cage:â€‰ The Non-IPR Endohedral DySc2N@C76. Journal of Physical Chemistry B, 2007, 111, 13659-13663.	2.6	104
16	Hindered Cluster Rotation and ⁴⁵Sc Hyperfine Splitting Constant in Distonoid Anion Radical Sc₃N@C₈₀^{â˜'}, and Spatial Spinâ˜'Charge Separation as a General Principle for Anions of Endohedral Fullerenes with Metal-Localized Lowest Unoccupied Molecular Orbitals. Journal of the American Chemical Society, 2008, 130, 17726-17742.	13.7	104
17	(BB)-Carboryne Complex of Ruthenium: Synthesis by Double Bâ€“H Activation at a Single Metal Center. Journal of the American Chemical Society, 2016, 138, 10531-10538.	13.7	102
18	Entrapped Bonded Hydrogen in a Fullerene: the Five-Atom Cluster Sc3CH in C80. ChemPhysChem, 2007, 8, 537-540.	2.1	101

#	Article	IF	Citations
19	Single-Electron Lanthanide-Lanthanide Bonds Inside Fullerenes toward Robust Redox-Active Molecular Magnets. Accounts of Chemical Research, 2019, 52, 2981-2993.	15.6	100
20	Bonding between strongly repulsive metal atoms: an oxymoron made real in a confined space of endohedral metallofullerenes. Chemical Communications, 2012, 48, 8031.	4.1	99
21	Toward Full Zigzag-Edged Nanographenes: peri-Tetracene and Its Corresponding Circumanthracene. Journal of the American Chemical Society, 2018, 140, 6240-6244.	13.7	98
22	Record-high thermal barrier of the relaxation of magnetization in the nitride clusterfullerene Dy₂ScN@C₈₀-I_h. Chemical Communications, 2017, 53, 7901-7904.	4.1	95
23	C78Cage Isomerism Defined by Trimetallic Nitride Cluster Size:Â A Computational and Vibrational Spectroscopic Study. Journal of Physical Chemistry B, 2007, 111, 3363-3369.	2.6	94
24	Synthesis and X-ray or NMR/DFT Structure Elucidation of Twenty-One New Trifluoromethyl Derivatives of Soluble Cage Isomers of C76, C78, C84, and C90. Journal of the American Chemical Society, 2008, 130, 13471-13489.	13.7	91
25	Electron Affinity of Phenylâ€“C₆₁â€“Butyric Acid Methyl Ester (PCBM). Journal of Physical Chemistry C, 2013, 117, 14958-14964.	3.1	91
26	Tunneling, remanence, and frustration in dysprosium-based endohedral single-molecule magnets. Physical Review B, 2014, 89, .	3.2	91
27	Perfluoroalkylfullerenes. Chemical Reviews, 2015, 115, 1051-1105.	47.7	90
28	Radical Trifluoromethylation of Sc3N@C80. Journal of the American Chemical Society, 2007, 129, 11676-11677.	13.7	85
29	Triangular Monometallic Cyanide Cluster Entrapped in Carbon Cage with Geometry-Dependent Molecular Magnetism. Journal of the American Chemical Society, 2016, 138, 14764-14771.	13.7	85
30	A Molecular Switch Based on Current-Driven Rotation of an Encapsulated Cluster within a Fullerene Cage. Nano Letters, 2011, 11, 5327-5332.	9.1	82
31	A Buckybowl with a Lot of Potential: C₅â€₂₀H₅(CF₃)₅. Angewandte Chemie - International Edition, 2012, 51, 4939-4942.	13.8	81
32	Endohedral fullerene with Î¼3-carbido ligand and titanium-carbon double bond stabilized inside a carbon cage. Nature Communications, 2014, 5, 3568.	12.8	80
33	Synthesis, Characterization, and Theoretical Study of Stable Isomers of C70(CF3)n (n = 2, 4, 6, 8, 10). Chemistry - A European Journal, 2006, 12, 3876-3889.	3.3	77
34	An endohedral titanium(iii) in a clusterfullerene: putting a non-group-III metal nitride into the C80-Ih fullerene cage. Chemical Communications, 2009, , 6391.	4.1	77
35	Cationic Nitrogenâ€Doped Helical Nanographenes. Angewandte Chemie - International Edition, 2017, 56, 15876-15881.	13.8	77
36	Gadolinium-Based Mixed-Metal Nitride Clusterfullerenes GdxSc3â^'xN@C80 (x=1, 2). ChemPhysChem, 2006, 7, 1990-1995.	2.1	74

#	Article	IF	Citations
37	Direct Perfluorination of K₂B₁₂H₁₂ in Acetonitrile Occurs at the Gas Bubbleâ^'Solution Interface and Is Inhibited by HF. Experimental and DFT Study of Inhibition by Protic Acids and Soft, Polarizable Anions. Journal of the American Chemical Society, 2009, 131, 18393-18403.	13.7	74
38	Methane as a Selectivity Booster in the Arcâ€Discharge Synthesis of Endohedral Fullerenes: Selective Synthesis of the Singleâ€Molecule Magnet Dy₂TiC@C₈₀ and Its Congener Dy₂TiC₂@C₈₀. Angewandte Chemie - International Edition, 2015, 54, 13411-13415.	13.8	74
39	Synthesis, Spectroscopic and Electrochemical Characterization, and DFT Study of Seventeen C₇₀(CF₃)_n Derivatives (n=2, 4, 6, 8, 10, 12). Chemistry - A European Journal, 2008, 14, 107-121.	3.3	73
40	Poly(perfluoroalkylation) of Metallic Nitride Fullerenes Reveals Addition-Pattern Guidelines: Synthesis and Characterization of a Family of Sc₃N@C₈₀(CF₃)_n(n= 2â^'16) and Their Radical Anions. Journal of the American Chemical Society, 2011, 133, 2672-2690.	13.7	73
41	Understanding mechanochemical coupling in kinesins using first-passage-time processes. Physical Review E, 2005, 71, 031902.	2.1	71
42	Metal-Cage Bonding, Molecular Structures and Vibrational Spectra of Endohedral Fullerenes: Bridging Experiment and Theory. Journal of Computational and Theoretical Nanoscience, 2009, 6, 292-317.	0.4	70
43	Organometallic Complexes of Graphene: Toward Atomic Spintronics Using a Graphene Web. ACS Nano, 2011, 5, 9939-9949.	14.6	70
44	High-Temperature Synthesis of the Surprisingly StableC1-C70(CF3)10 Isomer with apara7-meta-para Ribbon of Nine C6(CF3)2 Edge-Sharing Hexagons. Angewandte Chemie - International Edition, 2005, 44, 7984-7987.	13.8	69
45	Carbon Pyramidalization in Fullerene Cages Induced by the Endohedral Cluster: Nonâ€Scandium Mixed Metal Nitride Clusterfullerenes. Angewandte Chemie - International Edition, 2008, 47, 8196-8200.	13.8	67
46	Redox-Active Scandium Oxide Cluster inside a Fullerene Cage: Spectroscopic, Voltammetric, Electron Spin Resonance Spectroelectrochemical, and Extended Density Functional Theory Study of Sc₄O₂@C₈₀ and Its Ion Radicals. Journal of the American Chemical Society, 2012, 134, 19607-19618.	13.7	67
47	A Pseudoatom in a Cage: Trimetallofullerene Y₃@C₈₀Mimics Y₃N@C₈₀with Nitrogen Substituted by a Pseudoatom. ACS Nano, 2010, 4, 795-802.	14.6	66
48	High Blocking Temperature of Magnetization and Giant Coercivity in the Azafullerene Tb₂@C₇₉N with a Singleâ€Electron Terbiumâ€“Terbium Bond. Angewandte Chemie - International Edition, 2019, 58, 5891-5896.	13.8	66
49	Preparation and Structural Characterization of Two Kinetically Stable Chlorofullerenes, C60Cl28 and C60Cl30. Angewandte Chemie - International Edition, 2005, 44, 432-435.	13.8	65
50	The Metallofullerene Fieldâ€Induced Singleâ€Ion Magnet HoSc₂N@C₈₀. Chemistry - A European Journal, 2014, 20, 13536-13540.	3.3	65
51	Recent advances in single molecule magnetism of dysprosium-metallofullerenes. Dalton Transactions, 2019, 48, 2861-2871.	3.3	65
52	Mononuclear Clusterfullerene Singleâ€Molecule Magnet Containing Strained Fusedâ€Pentagons Stabilized by a Nearly Linear Metal Cyanide Cluster. Angewandte Chemie - International Edition, 2017, 56, 1830-1834.	13.8	64
53	C₁â€(C₈₄â€C₂(11))(CF₃)₁₂: Trifluoromethylation Yields Structural Proof of a Minor C₈₄ Cage and Reveals a Principle of Higher Fullerene Reactivity. Angewandte Chemie - International Edition, 2008, 47, 6204-6207.	13.8	63
54	A diuranium carbide cluster stabilized inside a C80 fullerene cage. Nature Communications, 2018, 9, 2753.	12.8	63

#	Article	IF	Citations
55	A Facile Route to the Non-IPR Fullerene Sc3N@C68: Synthesis, Spectroscopic Characterization, and Density Functional Theory Computations (IPR=Isolated Pentagon Rule). Chemistry - A European Journal, 2006, 12, 7856-7863.	3.3	62
56	Mixed Metal Nitride Clusterfullerenes in Cage Isomers: Lu_xSc_{3â^'x}N@C₈₀ (x = 1, 2) As Compared with M_xSc_{3â^'x}N@C₈₀ (M = Er, Dy, Gd, Nd). Journal of Physical Chemistry C, 2009, 113, 7616-7623.	3.1	62
57	Surface Aligned Magnetic Moments and Hysteresis of an Endohedral Single-Molecule Magnet on a Metal. Physical Review Letters, 2015, 114, 087201.	7.8	62
58	Seven-Minute Synthesis of PureCs-C60Cl6 from [60]Fullerene and Iodine Monochloride: First IR, Raman, and Mass Spectra of 99 mol % C60Cl6. Chemistry - A European Journal, 2005, 11, 5426-5436.	3.3	61
59	Discovering and Verifying Elusive Fullerene Cage Isomers: Structures ofC2-p11-(C74-D3h)(CF3)12 andC2-p11-(C78-D3h(5))(CF3)12. Angewandte Chemie - International Edition, 2007, 46, 4111-4114.	13.8	61
60	Titanium/Yttrium Mixed Metal Nitride Clusterfullerene TiY₂N@C₈₀: Synthesis, Isolation, and Effect of the Group-III Metal. Inorganic Chemistry, 2012, 51, 3039-3045.	4.0	61
61	The Isomers of Gadolinium Scandium Nitride Clusterfullerenes Gd_xSc_{3â^'x}N@C₈₀ (x=1, 2) and Their Influence on Cluster Structure. Chemistry - A European Journal, 2008, 14, 2084-2092.	3.3	60
62	Sc₃N@(C₈₀-I_h(7))(CF₃)₁₄ and Sc₃N@(C₈₀-I_h(7))(CF₃)₁₆. Endohedral Metallofullerene Derivatives with Exohedral Addends on Four and Eight Triple-Hexagon Junctions. Does the Sc₃N Cluster Control the Addition Pattern or Vice Versa?. Journal of the American Chemical Society, 2009, 131, 17630-17637.	13.7	59
63	C₂₀H₄(C₄F₈)₃: A Fluorineâ€Containing Annulated Corannulene that Is a Better Electron Acceptor Than C₆₀. Angewandte Chemie - International Edition, 2013, 52, 7505-7508.	13.8	58
64	Selective arc-discharge synthesis of Dy₂S-clusterfullerenes and their isomer-dependent single molecule magnetism. Chemical Science, 2017, 8, 6451-6465.	7.4	58
65	The First X-ray Crystal Structures of Halogenated [70]Fullerene: C70Br10 and C70Br10â‹…3â€‰Br2. Angewandte Chemie - International Edition, 2003, 42, 2395-2398.	13.8	57
66	Soluble Chlorofullerenes C₆₀Cl_{2,4,6,8,10}. Synthesis, Purification, Compositional Analysis, Stability, and Experimental/Theoretical Structure Elucidation, Including the X-ray Structure of C₁-C₆₀Cl₁₀. Journal of the American Chemical Society, 2010, 132, 6443-6462.	13.7	57
67	Spin-Flow Vibrational Spectroscopy of Molecules with Flexible Spin Density: Electrochemistry, ESR, Cluster and Spin Dynamics, and Bonding in TiSc₂N@C₈₀. ACS Nano, 2010, 4, 4857-4871.	14.6	55
68	Ï€-Extended and Curved Antiaromatic Polycyclic Hydrocarbons. Journal of the American Chemical Society, 2017, 139, 7513-7521.	13.7	55
69	Bromination of [60]Fullerene. I. Highâ€Yield Synthesis of C60Br x (x=6, 8, 24). Fullerenes Nanotubes and Carbon Nanostructures, 2003, 11, 47-60.	2.1	53
70	Thermally Stable Perfluoroalkylfullerenes with the Skew-Pentagonal-Pyramid Pattern:Â C60(C2F5)4O, C60(CF3)4O, and C60(CF3)6. Journal of the American Chemical Society, 2006, 128, 12268-12280.	13.7	53
71	Clusters Encapsulated in Endohedral Metallofullerenes: How Strained Are They?. Journal of the American Chemical Society, 2014, 136, 4257-4264.	13.7	53
72	Rapid reversible borane to boryl hydride exchange by metal shuttling on the carborane cluster surface. Chemical Science, 2017, 8, 5399-5407.	7.4	53

#	Article	IF	Citations
73	Synthesis and Structure of LaSc₂N@C_s(hept)â€Œ₈₀ with One Heptagon and Thirteen Pentagons. Angewandte Chemie - International Edition, 2015, 54, 495-499.	13.8	50
74	A Curved Graphene Nanoribbon with Multi-Edge Structure and High Intrinsic Charge Carrier Mobility. Journal of the American Chemical Society, 2020, 142, 18293-18298.	13.7	50
75	A [70]Fullerene Chloride, C70Cl16, Obtained by the Attempted Bromination of C70 in TiCl4. Angewandte Chemie - International Edition, 2005, 44, 4215-4218.	13.8	49
76	Charged States of Sc3N@C68: An In Situ Spectroelectrochemical Study of the Radical Cation and Radical Anion of a Non-IPR Fullerene. Journal of Physical Chemistry A, 2008, 112, 5858-5865.	2.5	49
77	Magnetization relaxation in the single-ion magnet DySc₂N@C₈₀: quantum tunneling, magnetic dilution, and unconventional temperature dependence. Physical Chemistry Chemical Physics, 2018, 20, 11656-11672.	2.8	49
78	Magnetic anisotropy of endohedral lanthanide ions: paramagnetic NMR study of MSc₂N@C₈₀-I_h with M running through the whole 4f row. Chemical Science, 2015, 6, 2328-2341.	7.4	48
79	Th-C60F24. Journal of the American Chemical Society, 2004, 126, 1618-1619.	13.7	47
80	Gdâ€“Sc-Based Mixed-Metal Nitride Cluster Fullerenes: Mutual Influence of the Cage and Cluster Size and the Role of Scandium in the Electronic Structure. Inorganic Chemistry, 2013, 52, 3368-3380.	4.0	47
81	Synthesis and Isolation of the Titaniumâ€“Scandium Endohedral Fullerenesâ€”Sc₂TiC@I_hâ€Œ₈₀, Sc₂TiC@D₅h</sub>â€Œ₈₀ and Sc₂TiC₂@I_hâ€Œ₈₀: Metal Size Tuning of the Ti^{IV}/Ti^{III} Redox Potentials. Chemistry - A European Journal, 2016, 22, 13098-13107.	3.3	47
82	Helical Nanographenes Containing an Azulene Unit: Synthesis, Crystal Structures, and Properties. Angewandte Chemie, 2020, 132, 5686-5691.	2.0	47
83	Latent Porosity in Potassium Dodecafluoro-closo-dodecaborate(2a⁻). Structures and Rapid Room Temperature Interconversions of Crystalline K₂B₁₂F₁₂, K₂(H₂O)₂B₁₂F₁₂, and K₂(H₂O)₄B₁₂F₁₂ in the Presence of Water Vapor. Journal of the American Chemical Society, 2019, 141, 13902-13913.	13.7	46
84	NBN-embedded Polycyclic Aromatic Hydrocarbons Containing Pentagonal and Heptagonal Rings. Organic Letters, 2019, 21, 1354-1358.	4.6	45
85	Preparation and crystallographic characterization of C60Cl24. Chemical Communications, 2005, , 1411.	4.1	43
86	Large mixed metal nitride clusters encapsulated in a small cage: the confinement of the C68-based clusterfullerenes. Chemical Communications, 2008, , 2885.	4.1	43
87	Fulleretic Wellâ€Defined Scaffolds: Donorâ€“Fullerene Alignment Through Metal Coordination and Its Effect on Photophysics. Angewandte Chemie - International Edition, 2016, 55, 9070-9074.	13.8	43
88	Redoxâ€Tuning Endohedral Fullerene Spin States: From the Dication to the Trianion Radical of Sc₃N@C₈₀(CF₃)₂ in Five Reversible Singleâ€Electron Steps. Chemistry - A European Journal, 2010, 16, 4721-4724.	3.3	42
89	Vibrational Structure of Endohedral Fullerene Sc3N@C78 (D3hâ€²): Evidence for a Strong Coupling between the Sc3N Cluster and C78 Cage. ChemPhysChem, 2006, 7, 1734-1740.	2.1	40
90	Electrochemistry In Cavea: Endohedral Redox Reactions of Encaged Species in Fullerenes. Journal of Physical Chemistry Letters, 2011, 2, 786-794.	4.6	40

#	Article	IF	Citations
91	Single Molecule Magnetism with Strong Magnetic Anisotropy and Enhanced Dyâ^™â^™â^™Dy Coupling in Three Isomers of Dyâ€Oxide Clusterfullerene Dy₂O@C₈₂. Advanced Science, 2019, 6, 1901352.	11.2	40
92	Photoinduced Charge Accumulation and Prolonged Multielectron Storage for the Separation of Light and Dark Reaction. Journal of the American Chemical Society, 2020, 142, 15722-15728.	13.7	40
93	Confining the spin between two metal atoms within the carbon cage: redox-active metalâ€“metal bonds in dimetallofullerenes and their stable cation radicals. Nanoscale, 2017, 9, 7977-7990.	5.6	39
94	An endohedral redox system in a fullerene cage: the Ce based mixed-metal cluster fullerene Lu2CeN@C80. Physical Chemistry Chemical Physics, 2010, 12, 7840.	2.8	38
95	Topological Signatures in the Electronic Structure of Graphene Spirals. Scientific Reports, 2013, 3, 1632.	3.3	36
96	Spin Density and Cluster Dynamics in Sc₃N@C₈₀^{â€“} upon [5,6] Exohedral Functionalization: An ESR and DFT Study. Journal of Physical Chemistry C, 2013, 117, 2344-2348.	3.1	36
97	Giant exchange coupling and field-induced slow relaxation of magnetization in Gd₂@C₇₉N with a single-electron Gdâ€“Gd bond. Chemical Communications, 2018, 54, 2902-2905.	4.1	36
98	Five-Membered Heterocycles as Linking Units in Strongly Coupled Homobimetallic Group 8 Metal Half-Sandwich Complexes. Organometallics, 2015, 34, 2826-2840.	2.3	35
99	Wave-shaped polycyclic hydrocarbons with controlled aromaticity. Chemical Science, 2019, 10, 4025-4031.	7.4	35
100	X-ray structure and DFT study of C1-C60(CF3)12. A high-energy, kinetically-stable isomer prepared at 500 Â°C. Chemical Communications, 2007, , 1650-1652.	4.1	34
101	X-ray induced demagnetization of single-molecule magnets. Applied Physics Letters, 2014, 105, .	3.3	34
102	Hierarchical Corannuleneâ€Based Materials: Energy Transfer and Solidâ€State Photophysics. Angewandte Chemie - International Edition, 2017, 56, 4525-4529.	13.8	34
103	Thermal [6,6] â†' [6,6] Isomerization and Decomposition of PCBM (Phenyl-C₆₁-butyric Acid) Tj ETQq1 1 0.784314 rgBT	6.7	33
104	Synthesis and structures of C60 fullerene chlorides. Russian Chemical Bulletin, 2005, 54, 1656-1666.	1.5	32
105	Magnetic hysteresis in self-assembled monolayers of Dy-fullerene single molecule magnets on gold. Nanoscale, 2018, 10, 11287-11292.	5.6	32
106	Expansion of the (BB)î€‰Ru metallacycle with coinage metal cations: formation of Bâ€“Mâ€“Ruâ€“B (M = Cu, Ag,) Tj ETQq0 0 0 rgBT	7.4	30
107	Carbide clusterfullerene DyYTiC@C₈₀ featuring three different metals in the endohedral cluster and its single-ion magnetism. Chemical Communications, 2018, 54, 10683-10686.	4.1	30
108	Quinoidal Azaacenes: 99â€‰% Diradical Character. Angewandte Chemie - International Edition, 2020, 59, 12396-12401.	13.8	30

#	Article	IF	Citations
109	Infrared, Raman, and DFT Vibrational Spectroscopic Studies of C60F36 and C60F48. Journal of Physical Chemistry A, 2006, 110, 8645-8652.	2.5	29
110	Nitrogen Directs Multiple Radical Additions to the 9,9â€²â€Biâ€1â€aza(C₆₀â€I_h)[5,6]fullerene: Xâ€ray Structure of 6,9,12,15,18â€C₅₉N(CF₃)₅. Angewandte Chemie - International Edition, 2011, 50, 5537-5540.	13.8	28
111	Shape-adaptive single-molecule magnetism and hysteresis up to 14 K in oxide clusterfullerenes Dy₂O@C₇₂ and Dy₂O@C₇₄ with fused pentagon pairs and flexible Dyâ€“(μ₂-O)â€“Dy angle. Chemical Science, 2020, 11, 4766-4772.	7.4	28
112	Robust Single Molecule Magnet Monolayers on Graphene and Graphite with Magnetic Hysteresis up to 28ÂK. Advanced Functional Materials, 2021, 31, 2105516.	14.9	28
113	Electrophilic Trifluoromethylation of Dimetallofullerene Anions en Route to Air-Stable Single-Molecule Magnets with High Blocking Temperature of Magnetization. Journal of the American Chemical Society, 2021, 143, 18139-18149.	13.7	28
114	Benzoâ€Extended Cyclohepta[def]fluorene Derivatives with Very Lowâ€Lying Triplet States. Angewandte Chemie - International Edition, 2022, 61, .	13.8	28
115	An Expanded Family of Dysprosiumâ€“Scandium Mixedâ€Metal Nitride Clusterfullerenes: The Role of the Lanthanide Metal on the Carbon Cage Size Distribution. Chemistry - A European Journal, 2015, 21, 5750-5759.	3.3	27
116	Kationische stickstoffdotierte helikale Nanographene. Angewandte Chemie, 2017, 129, 16092-16097.	2.0	27
117	Tunable Fulleretic Sodalite MOFs: Highly Efficient and Controllable Entrapment of C₆₀ Fullerene via Mechanochemistry. Chemistry of Materials, 2020, 32, 10628-10640.	6.7	27
118	Self-assembly of endohedral metallofullerenes: a decisive role of cooling gas and metalâ€“carbon bonding. Nanoscale, 2016, 8, 3796-3808.	5.6	26
119	Substrateâ€Independent Magnetic Bistability in Monolayers of the Singleâ€Molecule Magnet Dy₂ScN@C₈₀ on Metals and Insulators. Angewandte Chemie - International Edition, 2020, 59, 5756-5764.	13.8	26
120	Sublimation of hydrofullerenes C60H36 and C60H18. Chemical Physics Letters, 2001, 336, 39-46.	2.6	25
121	Relative stability of polymerized phases of C60: Depolymerization of a tetragonal phase. Carbon, 2005, 43, 954-961.	10.3	25
122	Synthesis and Structure of Ag(1-Me-12-SiPh3-CB11F10):â€‰ Selective F12 Substitution in 1-Me-CB11F11- and the First Ag(arene)4+ Tetrahedron. Inorganic Chemistry, 2007, 46, 8505-8507.	4.0	25
123	Substituent effects in a series of 1,7-C60(RF)2 compounds (RF = CF3, C2F5, n-C3F7, i-C3F7, n-C4F9, s-C4F9,) Tj ETQq1 1 0.784314 rgB Chemical Science, 2012, 3, 1399.	7.4	25
124	Magnetic moments and exchange coupling in nitride clusterfullerenes GdxSc3â€“xN@C80 (x = 1â€“3). Dalton Transactions, 2014, 43, 7387.	3.3	25
125	Cluster-size dependent internal dynamics and magnetic anisotropy of Ho ions in HoM₂N@C₈₀and Ho₂MN@C₈₀families (M = Sc, Lu, Y). Nanoscale, 2014, 6, 11431-11438.	5.6	25
126	Magnetic Hysteresis at 10 K in Single Molecule Magnet Selfâ€Assembled on Gold. Advanced Science, 2021, 8, 2000777.	11.2	25

#	Article	IF	Citations
127	Poly(trifluoromethyl)fullerene Radical Anions. An ESR/Visâ^'NIR Spectroelectrochemical Study of C60F2,4 and C60(CF3)2,10. Journal of Physical Chemistry A, 2005, 109, 9709-9711.	2.5	24
128	Understanding High-Yield Catalyst-Free Growth of Horizontally Aligned Single-Walled Carbon Nanotubes Nucleated by Activated C60 Species. ACS Nano, 2012, 6, 10825-10834.	14.6	24
129	Strain-Driven Endohedral Redox Couple CeIV/CeIII in Nitride Clusterfullerenes CeM2N@C80 (M = Sc, Y,) Tj ETQq1 1 0.784314 rgBT /O	4.6	24
130	Furan-containing double tetraoxa[7]helicene and its radical cation. Chemical Communications, 2020, 56, 15181-15184.	4.1	24
131	The First X-ray Crystal Structures of Halogenated [70]Fullerene: C70Br10 and C70Br10â‹…3â€‰Br2. Angewandte Chemie, 2003, 115, 2497-2500.	2.0	23
132	The Extended View on the Empty C₂(3)â€“C₈₂ Fullerene: Isolation, Spectroscopic, Electrochemical, and Spectroelectrochemical Characterization and DFT Calculations. Chemistry - A European Journal, 2008, 14, 9960-9967.	3.3	23
133	Polycyclic heteroaromatic hydrocarbons containing a benzoisoindole core. Organic Chemistry Frontiers, 2017, 4, 847-852.	4.5	23
134	Spectroelectrochemical Approaches to Mechanistic Aspects of Charge Transport in meso-Nickel(II) Schiff Base Electrochromic Polymer. Journal of Physical Chemistry C, 2017, 121, 16710-16720.	3.1	23
135	Strong carbon cage influence on the single molecule magnetism in Dyâ€“Sc nitride clusterfullerenes. Chemical Communications, 2018, 54, 9730-9733.	4.1	23
136	Singleâ€Molecule Magnets DyM₂N@C₈₀ and Dy₂MN@C₈₀ (M=Sc, Lu): The Impact of Diamagnetic Metals on Dy³⁺ Magnetic Anisotropy, Dyâ‹…â‹…â‹…Dy Coupling, and Mixing of Molecular and Lattice Vibrations. Chemistry - A European Journal, 2020, 26, 2436-2449.	3.3	23
137	Exceptionally High Blocking Temperature of 17 K in a Surfaceâ€Supported Molecular Magnet. Advanced Materials, 2021, 33, e2102844.	21.0	23
138	Dimerization of Radical-Anions: Nitride Clusterfullerenes versus Empty Fullerenes. Journal of Physical Chemistry Letters, 2011, 2, 1592-1600.	4.6	22
139	Perfluoroalkyl [70]-Fullerenes as Robust Highly-Luminescent Fluorocarbons, or Position of One CF₃ Group Matters. Journal of Physical Chemistry Letters, 2013, 4, 2500-2507.	4.6	22
140	Endohedral metal-nitride cluster ordering in metallofullereneâ€“Ni^{II}(OEP) complexes and crystals: a theoretical study. Physical Chemistry Chemical Physics, 2019, 21, 8197-8200.	2.8	22
141	Stabilizing a three-center single-electron metalâ€“metal bond in a fullerene cage. Chemical Science, 2021, 12, 6890-6895.	7.4	22
142	Synthesis, Isolation, and Spectroscopic Characterization of Holmiumâ€Based Mixedâ€Metal Nitride Clusterfullerenes: Ho_xSc_{3â^'x}N@C₈₀ (x=1, 2). Chemistry - A European Journal, 2012, 18, 9691-9698.	3.3	21
143	Mononuclear Clusterfullerene Singleâ€Molecule Magnet Containing Strained Fusedâ€Pentagons Stabilized by a Nearly Linear Metal Cyanide Cluster. Angewandte Chemie, 2017, 129, 1856-1860.	2.0	21
144	Reaction of C60 with KMnF4. Journal of Fluorine Chemistry, 2006, 127, 1423-1435.	1.7	20

#	Article	IF	Citations
145	Chemical tailoring of fullerene acceptors: synthesis, structures and electrochemical properties of perfluoroisopropylfullerenes. Chemical Communications, 2011, 47, 875-877.	4.1	20
146	In Search of Fullereneâ€Based Superacids: Synthesis, Xâ€ray Structure, and DFT Study of C₆₀(C₂F₅)₅H. Chemistry - A European Journal, 2011, 17, 8799-8802.	3.3	20
147	Singleâ€Step Gasâ€Phase Polyperfluoroalkylation of Naphthalene Leads to Thermodynamic Products. Chemistry - A European Journal, 2014, 20, 4373-4379.	3.3	20
148	Helical Ullazineâ€Quinoxalineâ€Based Polycyclic Aromatic Hydrocarbons. Chemistry - A European Journal, 2019, 25, 1345-1352.	3.3	20
149	A Modular Cascade Synthetic Strategy Toward Structurally Constrained Boronâ€Doped Polycyclic Aromatic Hydrocarbons. Angewandte Chemie - International Edition, 2021, 60, 25695-25700.	13.8	20
150	High-temperature and photochemical syntheses of C60 and C70 fullerene derivatives with linear perfluoroalkyl chains. Journal of Fluorine Chemistry, 2010, 131, 1198-1212.	1.7	19
151	A multi-state single-molecule switch actuated by rotation of an encapsulated cluster within a fullerene cage. Chemical Physics Letters, 2012, 552, 1-12.	2.6	19
152	Endohedral metal or a fullerene cage based oxidation? Redox duality of nitride clusterfullerenes CexM3â^'xN@C78â€“88(x = 1, 2; M = Sc and Y) dictated by the encaged metals and the carbon cage size. Nanoscale, 2014, 6, 1038-1048.	5.6	19
153	Transition-Metal and Rare-Earth-Metal Redox Couples inside Carbon Cages: Fullerenes Acting as Innocent Ligands. Organometallics, 2014, 33, 4537-4549.	2.3	19
154	Sc₃CH@C₈₀: selective ¹³C enrichment of the central carbon atom. Chemical Communications, 2016, 52, 6561-6564.	4.1	19
155	Redox-active metalâ€“metal bonds between lanthanides in dimetallofullerenes. Current Opinion in Electrochemistry, 2018, 8, 73-80.	4.8	19
156	Raman, Infrared, and Theoretical Studies of Fluorofullerene C60F20. Journal of Physical Chemistry A, 2004, 108, 11449-11456.	2.5	18
157	A crystalline anionic complex of scandium nitride endometallofullerene: experimental observation of single-bonded (Sc3N@Ih-C80â^')2 dimers. Chemical Communications, 2016, 52, 10763-10766.	4.1	18
158	Raman and infrared spectroscopic study of C60F18, C60F36 and C60F48. Vibrational Spectroscopy, 2004, 34, 137-147.	2.2	17
159	Electronic Structure and Spectroscopic Studies ofD3d-C60Cl30, a Chlorofullerene with a [18]Trannulene Ring, and Its Relation to Other [18]Trannulenes. Journal of Physical Chemistry A, 2006, 110, 7414-7421.	2.5	17
160	ESRâ€Vis/NIR Spectroelectrochemical Study of C₇₀(CF₃)₂^{â^'.} and C₇₀(C₂F₅)₂^{â^'.} Radical Anions. ChemPhysChem, 2008, 9, 431-438.	2.1	17
161	C₆₀F_n^{â^'} and C₆₀F_m^{2â^'} (n = 17, 33, 35, 43, 45, 47; m = 34, 46) in the Gas Phase and the Generation and Characterization of C₁-C₆₀F₄₇^{â^'} and D₂-C₆₀F₄₄ in Solution. Journal of Physical Chemistry A, 2010, 114, 1756-1765.	2.5	17
162	Regioselective Sequential Additions of Nucleophiles and Electrophiles to Perfluoroalkylfullerenes: Which Cage C Atoms Are the Most Reactive and Why?. Chemistry - A European Journal, 2013, 19, 5070-5080.	3.3	17

#	Article	IF	Citations
163	Corannulene Molecular Rotor with Flexible Perfluorobenzyl Blades: Synthesis, Structure and Properties. Chemistry - A European Journal, 2015, 21, 9488-9492.	3.3	17
164	Tailoring Magnetic Features in Zigzagâ€Edged Nanographenes by Controlled Dielsâ€“Alder Reactions. Chemistry - A European Journal, 2020, 26, 7497-7503.	3.3	17
165	Fullerene â€œSuperhalogenâ€•Radicals: the Substituent Effect on Electronic Properties of 1,7,11,24,27â€C₆₀X₅. Chemistry - A European Journal, 2013, 19, 15404-15409.	3.3	16
166	Copper Causes Regiospecific Formation of C₄F₈â€Containing Sixâ€Membered Rings and their Defluorination/Aromatization to C₄F₄â€Containing Rings in Triphenylene/1,4â€C₄F₈I₂ Reactions. Chemistry - A European Journal, 2016, 22, 874-877.	3.3	16
167	Switching Molecular Conformation with the Torque on a Single Magnetic Moment. Physical Review Letters, 2017, 119, 237202.	7.8	16
168	Dipyrene-Fused Dicyclopenta[a,f]naphthalenes. Journal of Organic Chemistry, 2020, 85, 215-223.	3.2	16
169	Unusually large hyperfine structure of the electron spin levels in an endohedral dimetallofullerene and its spin coherent properties. Nanoscale, 2020, 12, 20513-20521.	5.6	16
170	Charged States of Four Isomers of C₈₄ Fullerene: In Situ ESR and Visâˆ’NIR Spectroelectrochemistry and DFT Calculations. Journal of Physical Chemistry C, 2009, 113, 5141-5149.	3.1	15
171	The State of Asymmetric Nitride Clusters in Endohedral Fullerenes as Studied by 14N NMR Spectroscopy: Experiment and Theory. Journal of Physical Chemistry C, 2011, 115, 15257-15265.	3.1	15
172	The Structure of (H₃O)₂B₁₂F₁₂·6H₂O â€“ a CCP Lattice of B₁₂F₁₂^{2â€“} Anions Intercalated with a Nonplanar Network of Oâ€“H···O Connected O₆ Rings. European Journal of Inorganic Chemistry, 2012, 2012, 208-212.	2.0	15
173	Anion Radicals of Isomeric [5,6] and [6,6] Benzoadducts of Sc₃N@C₈₀: Remarkable Differences in Endohedral Cluster Spin Density and Dynamics. Journal of the American Chemical Society, 2014, 136, 13436-13441.	13.7	15
174	Fulleretic Wellâ€Defined Scaffolds: Donorâ€“Fullerene Alignment Through Metal Coordination and Its Effect on Photophysics. Angewandte Chemie, 2016, 128, 9216-9220.	2.0	15
175	Interâ€Fullerene Electronic Coupling Controls the Efficiency of Photoinduced Charge Generation in Organic Bulk Heterojunctions. Advanced Energy Materials, 2016, 6, 1601427.	19.5	15
176	Partial magnetic ordering in one-dimensional arrays of endofullerene single-molecule magnet peapods. Nanoscale, 2018, 10, 18153-18160.	5.6	15
177	Mixed dysprosium-lanthanide nitride clusterfullerenes DyM₂N@C₈₀-I_hand Dy₂MN@C₈₀-I_h(M = Gd, Er, Tm, and Lu): synthesis, molecular structure, and quantum motion of the endohedral nitrogen atom. Nanoscale, 2019, 11, 13139-13153.	5.6	15
178	Vibrations of bromofullerene C60Br24: C60 cage confined into static bromine sphere. Chemical Physics Letters, 2004, 383, 149-155.	2.6	14
179	Unraveling the Electron Spin Resonance Pattern of Nonsymmetric Radicals with 30 Fluorine Atoms: Electron Spin Resonance and Visâˆ’Near-Infrared Spectroelectrochemistry of the Anion Radicals and Dianions of C60(CF3)2n(2n= 2â’10) Derivatives and Density Functional Theory-Assisted Assignment. Journal of the American Chemical Society, 2010, 132, 11709-11721.	13.7	14
180	Between Aromatic and Quinoid Structure: A Symmetrical UV to Vis/NIR Benzothiadiazole Redox Switch. Chemistry - A European Journal, 2020, 26, 17361-17365.	3.3	14

#	Article	IF	Citations
181	Macromolecular and Morphological Evolution of Poly(styrene sulfonate) Complexes with Tetradecyltrimethylammonium Bromide. Journal of Physical Chemistry B, 2012, 116, 12332-12340.	2.6	13
182	A method and apparatus for high-throughput controlled synthesis of fullerenes and endohedral metal fullerenes. Technical Physics Letters, 2016, 42, 475-477.	0.7	13
183	Controlled synthesis of fullerenes and endohedral metallofullerenes in high frequency arc discharge. Fullerenes Nanotubes and Carbon Nanostructures, 2016, 24, 675-678.	2.1	13
184	Hierarchical Corannuleneâ€Based Materials: Energy Transfer and Solidâ€State Photophysics. Angewandte Chemie, 2017, 129, 4596-4600.	2.0	13
185	Experimental and DFT Studies of the Electronâ€Withdrawing Ability of Perfluoroalkyl (R F) Groups: Electron Affinities of PAH(R F) n Increase Significantly with Increasing R F Chain Length. Chemistry - A European Journal, 2018, 24, 1441-1447.	3.3	13
186	Magnetism in Ln molecular systems with 4f/valence-shell interplay (FV-magnetism). Chemical Communications, 2019, 55, 13963-13966.	4.1	13
187	Vibrational, electronic, and vibronic excitations of polar<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mtext>C</mml:mtext><mml:mrow><mml:mn>60</mml:mn></mml:mrow></mml:msu Experimental and theoretical study. Physical Review B, 2009, 79, .	3.2	12
188	Saturnene Revealed: Xâ€ray Crystal Structure of D_{5d}â€C₆₀F₂₀ Formed in Reactions of C₆₀ with A_xMF_y Fluorinating Agents (A=Alkali Metal; M=3d Metal). Angewandte Chemie - International Edition, 2010, 49, 812-815.	13.8	12
189	Thermally Activated Delayed Fluorescence in a Y₃N@C₈₀ Endohedral Fullerene: Timeâ€Resolved Luminescence and EPR Studies. Angewandte Chemie - International Edition, 2018, 57, 277-281.	13.8	12
190	Hohe Blockâ€Temperatur der Magnetisierung und herausragende Koerzitivfeldstärke im Azafulleren Tb 2 @C 79 N mit einer Einelektronenâ€Terbiumâ€Terbiumâ€Bindung. Angewandte Chemie, 2019, 131, 5951-5956.	2.0	12
191	Magnetic hysteresis and strong ferromagnetic coupling of sulfur-bridged Dy ions in clusterfullerene Dy₂S@C₈₂. Inorganic Chemistry Frontiers, 2020, 7, 3521-3532.	6.0	12
192	Circular dichroism and angular deviation in x-ray absorption spectra of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Dy</mml:mi><mml:mn>2</mml:mn></mml: mathvariant="normal">C</mml:mi><mml:mn>80</mml:mn></mml:msub></mml:mrow></mml:math> single-molecule magnets on <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>h</mml:mi><mml:mtext>â˜’</mml:mtext><mml:mi>BN</ Physical Review Materials, 2019, 3, .	2.4	12
193	A Platform for Specific Delivery of Lanthanideâ€“Scandium Mixedâ€Metal Cluster Fullerenes into Target Cells. ChemistryOpen, 2012, 1, 207-210.	1.9	11
194	Pyramidal TiTb2C cluster encapsulated within the popular I(7)-C80 fullerene cage. Inorganica Chimica Acta, 2017, 468, 203-208.	2.4	11
195	Charge controlled changes in the cluster and spin dynamics of Sc3N@C80(CF3)2: the flexible spin density distribution and its impact on ESR spectra. Physical Chemistry Chemical Physics, 2011, 13, 8977.	2.8	10
196	Interplay of spin-dependent delocalization and magnetic anisotropy in the ground and excited states of [Gd2@C78]â˜ and [Gd2@C80]â˜. Journal of Chemical Physics, 2017, 147, 124305.	3.0	10
197	Sub-Kelvin hysteresis of the dilanthanide single-molecule magnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Tb</mml:mi><mml:mn>2</mml:mn></mml: mathvariant="normal">C</mml:mi><mml:mn>80</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2020, 101, .	3.2	10
198	Quinoidal Azaacenes: 99â€‰% Diradical Character. Angewandte Chemie, 2020, 132, 12496-12501.	2.0	10

#	Article	IF	Citations
199	Caught in Phase Transition: Snapshot of the Metallofullerene Sc₃N@C₇₀ Rotation in the Crystal. Journal of the American Chemical Society, 2021, 143, 612-616.	13.7	10
200	Spectroscopic and Theoretical Study of the Dimeric Dicationic Fullerene Complex [(C₇₀)₂]²⁺(Ti₃Cl₁₃)^{â"}₂. Journal of Physical Chemistry A, 2009, 113, 263-272.	2.5	9
201	Prato and Bingelâ€"Hirsch cycloaddition to heptagon-containing LaSc₂N@C_s(hept)-C₈₀: importance of pentalene units. Chemical Communications, 2015, 51, 5637-5640.	4.1	9
202	¹⁹F NMR-, ESR-, and vis-NIR-spectroelectrochemical study of the unconventional reduction behaviour of a perfluoroalkylated fullerene: dimerization of the C₇₀(CF₃)₁₀^{â"} radical anion. Analyst, The, 2015, 140, 7209-7216.	3.5	9
203	Fullerene cyanation does not always increase electron affinity: an experimental and theoretical study. Physical Chemistry Chemical Physics, 2015, 17, 551-556.	2.8	9
204	Molecular Structure and Magnetic and Optical Properties of Endometallonitridofullerene Sc₃N@I</sub>h</sub>â€C₈₀ in Neutral, Radical Anion, and Dimeric Anionic Forms. Chemistry - A European Journal, 2019, 25, 14858-14869.	3.3	9
205	A faux hawk fullerene with PCBM-like properties. Chemical Science, 2015, 6, 1801-1815.	7.4	8
206	Understanding Polyarene Trifluoromethylation with Hot CF 3 Radicals Using Corannulene. European Journal of Organic Chemistry, 2018, 2018, 4233-4245.	2.4	8
207	True Blue Through Oxidationâ€"A Thiaazulenic Heterophenoquinone as Electrochrome. Chemistry - A European Journal, 2019, 25, 5412-5415.	3.3	8
208	Addition of CF₂ group to endohedral fullerene Sc₃N@I_h-C₈₀. Dalton Transactions, 2020, 49, 9137-9147.	3.3	8
209	Large Acene Derivatives with Bâ€"N Lewis Pair Doping: Synthesis, Characterization, and Application. Organic Letters, 2022, 24, 1877-1882.	4.6	8
210	New Charge Transfer Cocrystals of F₂TCNQ with Polycyclic Aromatic Hydrocarbons: Acceptorâ€"Acceptor Interactions and Their Contribution to Supramolecular Arrangement and Charge Transfer. Crystal Growth and Design, 2022, 22, 751-762.	3.0	8
211	Imaging the Singleâ€Electron Lnâ€"Ln Bonding Orbital in a Dimetallofullerene Molecular Magnet. Small, 2022, 18, e2105667.	10.0	8
212	Tetrabutylammonium salt of the B24F224â" anion. Two B12F112â" icosahedra linked by a 2câ€"2e Bï£¿B bond and surrounded by a sheath of CHÂ· Â· Â·FB hydrogen bonds. Heteroatom Chemistry, 2006, 17, 181-187.	0.7	7
213	Dynamic HPLC study of C70 chlorination reveals a surprisingly selective synthesis of C70Cl8. Chemical Communications, 2010, 46, 8204.	4.1	7
214	Growth of all-carbon horizontally aligned single-walled carbon nanotubes nucleated from fullerene-based structures. Nanoscale Research Letters, 2013, 8, 265.	5.7	7
215	Carbide clusterfullerenes with odd number of carbon atoms: molecular and electronic structures of Sc4C@C80, Sc4C@C82, and Sc4C3@C80. Theoretical Chemistry Accounts, 2015, 134, 1.	1.4	7
216	Structures and structure-related electronic properties of new C60(CF3)10 isomers. Journal of Fluorine Chemistry, 2016, 185, 103-117.	1.7	7

#	Article	IF	Citations
217	PAH/PAH(CF 3) n Donor/Acceptor Chargeâ€Transfer Complexes in Solution and in Solidâ€State Coâ€Crystals. Chemistry - A European Journal, 2019, 25, 13547-13565.	3.3	7
218	Steric and electronic effects of CF3 conformations in acene(CF3) derivatives. Journal of Fluorine Chemistry, 2019, 221, 1-7.	1.7	7
219	Polycyclic Aromatic Hydrocarbons Containing A Pyrrolopyridazine Core. ChemPlusChem, 2019, 84, 613-618.	2.8	7
220	Thermodynamic Evaluation and Chemical Vapor Transport of Few-Layer WTe₂. Crystal Growth and Design, 2020, 20, 7341-7349.	3.0	7
221	Metallofullerene photoswitches driven by photoinduced fullerene-to-metal electron transfer. Chemical Science, 2021, 12, 7818-7838.	7.4	7
222	Metallofullerene single-molecule magnet Dy2O@C2v(5)-C80 with a strong antiferromagnetic DyÂ·Â·Â·Dy coupling. Chemical Communications, 0, , .	4.1	7
223	Vibrational Spectra of Chloroâ€and Bromofullerenes. Fullerenes Nanotubes and Carbon Nanostructures, 2005, 12, 305-310.	2.1	6
224	1,6,12,15,18,23,25,41,45,57-Decakis(trifluoromethyl)-1,6,12,15,18,23,25,41,45,57-decahydro(C60â€“I) Tj ETQq0 0 0 rgBT /Overlock 1	0.2	6
225	Carbon Cage Vibrations of M@C82 and M2@C2 n (M = La, Ce; 2nâ€‰=â€‰72, 78, 80): The Role of the Metal Atoms. Fullerenes Nanotubes and Carbon Nanostructures, 2014, 22, 202-214.	2.1	6
226	Electrostatic Interaction across a Single-Layer Carbon Shell. Journal of Physical Chemistry Letters, 2018, 9, 3586-3590.	4.6	6
227	Strong Photophysical Diversity and the Role of Charge Transfer Excitons in Transition Metal Phthalocyanine Î²-Phases. Journal of Physical Chemistry C, 2021, 125, 12398-12404.	3.1	6
228	Gadolinium as an accelerator for reaching thermal equilibrium and its influence on the ground state of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Dy</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi mathvariant="normal">C</mml:mi><mml:mn>80</mml:mn></mml:msub></mml:mrow></mml:math> single-molecule magnets. Physical Review B, 2021, 103, .	3.2	6
229	Metamagnetic transition and a loss of magnetic hysteresis caused by electron trapping in monolayers of single-molecule magnet Tb₂@C₇₉N. Nanoscale, 2022, 14, 9877-9892.	5.6	6
230	ESR study of the photolysis of C60Cl6. Russian Chemical Bulletin, 2000, 49, 753-754.	1.5	5
231	1,6,11,18,24,27,33,51,54,60-Decakis(trifluoromethyl)-1,6,11,18,24,27,33,51,54,60-decahydro(C₆₀-I<sub>h Acta Crystallographica Section E: Structure Reports Online, 2007, 63, o3129-o3129.	0.2	5
232	Direct Arc-Discharge Assisted Synthesis of C60H2(C3H5N): A cis-1-Pyrrolino C60 Fullerene Hydride with Unusual Redox Properties. Chemistry of Materials, 2010, 22, 2608-2615.	6.7	5
233	Unique Ultralow 18Ï€-Trannulenyl HOMOâ€“LUMO Energy Gap of Photostable Emerald-Green D3d-2-Methylmalonato[60]fullerenes. Journal of Physical Chemistry Letters, 2011, 2, 2296-2299.	4.6	5
234	In Situ Spectroelectrochemistry of Organic Com. , 2015, , 169-190.		5

#	Article	IF	Citations
235	Combined W-Band Light-Induced ESR/ENDOR/TRIPLE and DFT Study of PPVtype/PC61BM Ion Radicals. Journal of Physical Chemistry C, 2016, 120, 28905-28911.	3.1	5
236	Adsorption characteristics of Er₃N@C₈₀on W(110) and Au(111) studied via scanning tunneling microscopy and spectroscopy. Beilstein Journal of Nanotechnology, 2017, 8, 1127-1134.	2.8	5
237	Synthesis and Molecular Structures of Endohedral Fullerenes. Nanostructure Science and Technology, 2017, , 1-34.	0.1	5
238	Precise measurement of angles between two magnetic moments and their configurational stability in single-molecule magnets. Physical Review B, 2021, 104, .	3.2	5
239	Electrochemical Tuning of Spin States of the Endohedral Metallofullerene Y@C₈₂ as Probed by ESR Spectroelectrochemistry. ChemPhysChem, 2010, 11, 1650-1653.	2.1	4
240	Nanoscale x-ray investigation of magnetic metallofullerene peapods. Nanotechnology, 2017, 28, 435703.	2.6	4
241	Valence electrons in lanthanide-based single-atom magnets: a paradigm shift in 4f-magnetism modeling and design. Inorganic Chemistry Frontiers, 2021, 8, 2373-2384.	6.0	4
242	Temperature-dependent dynamics of endohedral fullerene Sc₂@C₈₀(CH₂Ph) studied by EPR spectroscopy. Physical Chemistry Chemical Physics, 2021, 23, 18206-18220.	2.8	4
243	From Cyclopentasilane to Thinâ€Film Transistors. Advanced Electronic Materials, 2021, 7, 2000422.	5.1	4
244	Regioselective CF₂ functionalization of Sc₃N@D_{3h}(5)-C₇₈. Dalton Transactions, 2022, 51, 1182-1190.	3.3	4
245	Optical Anisotropy and Momentum-Dependent Excitons in Dibenzopentacene Single Crystals. ACS Omega, 2022, 7, 21183-21191.	3.5	4
246	Equilibrium Phase Diagram of Polymerized C60and Kinetics of Decomposition of the Polymerized Phases. Fullerenes Nanotubes and Carbon Nanostructures, 2006, 14, 401-407.	2.1	3
247	Growth of catalystâ€assisted and catalystâ€free horizontally aligned single wall carbon nanotubes. Physica Status Solidi (B): Basic Research, 2011, 248, 2467-2470.	1.5	3
248	(Electrochemical) Properties and Computational Investigations of Ferrocenyl-substituted Fe3(Î¼3-PFc)2(CO)9 and Co4(Î¼4-PFc)2(CO)9 Clusters and Their Reduced Species. Inorganic Chemistry, 2020, 59, 6147-6160.	4.0	3
249	Structural Variety of Iron Carbonyl Clusters Featuring Ferrocenylphosphines. European Journal of Inorganic Chemistry, 2021, 2021, 2017-2033.	2.0	3
250	Benzoâ€Extended Cyclohepta[def]fluorene Derivatives with Very Lowâ€Lying Triplet States. Angewandte Chemie, 0, , .	2.0	3
251	Spectroelectrochemical Properties of Some Polymers of Polythiophene Series. Russian Journal of Electrochemistry, 2005, 41, 671-680.	0.9	2
252	Thermally Activated Delayed Fluorescence in a Y₃N@C₈₀ Endohedral Fullerene: Timeâ€Resolved Luminescence and EPR Studies. Angewandte Chemie, 2018, 130, 283-287.	2.0	2

#	Article	IF	Citations
253	On the Electrochemical Reduction of 4â€(Thiazolâ€2â€ylazo)â€Substituted 1â€Chloronaphthalenes: Formation and Characterization of Stable Radical Anions. ChemElectroChem, 2020, 7, 1666-1671.	3.4	2
254	Synthesis and Self-Assembly Behavior of Double Ullazine-Based Polycyclic Aromatic Hydrocarbons. Organic Materials, 2021, 03, 198-203.	2.0	2
255	Electrochemistry and Frontier Molecular Orbitals of Endohedral Metallofullerenes. Nanostructure Science and Technology, 2017, , 35-62.	0.1	2
256	Vibrational anatomy of C₉₀, C₉₆, and C₁₀₀ fullertubes: probing Frankenstein's skeletal structures of fullerene head endcaps and nanotube belt midsection. Nanoscale, 2022, 14, 10823-10834.	5.6	2
257	Vibrational Spectra of C60 Polymers: Experiment and First-Principle Assignment. NATO Science Series Series II, Mathematics, Physics and Chemistry, 2004, , 457-466.	0.1	1
258	Infrared Spectra and Structure of C60 Heterocyclic Derivatives. Fullerenes Nanotubes and Carbon Nanostructures, 2005, 12, 209-213.	2.1	1
259	Polarized IR studies of C60F18 single crystals. Diamond and Related Materials, 2007, 16, 1236-1239.	3.9	1
260	Electronic Structure of Sc[sub 3]N@C[sub 68] in Neutral and Charged States: An Experimental and TD-DFT Study. , 2009, , .		1
261	Effect of the Diamagnetic Single-Crystalline Host on the Angular-Resolved Electron Nuclear Double Resonance Experiments: Case of Paramagnetic [ⁿBu₄N]₂[Cu(opba)] Embedded in Diamagnetic [ⁿBu₄N]₂[Ni(opba)]. Journal of Physical Chemistry Letters, 2019, 10, 6565-6571.	4.6	1
262	Substrateâ€Independent Magnetic Bistability in Monolayers of the Singleâ€Molecule Magnet Dy 2 ScN@C 80 on Metals and Insulators. Angewandte Chemie, 2020, 132, 5805-5813.	2.0	1
263	Structures and Stability of Fullerenes, Metallofullerenes, and Their Derivatives. , 2016, , 1-66.		1
264	The First X-Ray Crystal Structures of Halogenated [70]Fullerene: C70Br10 and C70Br10Ã—3Br2.. ChemInform, 2003, 34, no.	0.0	0
265	Preparation and Structural Characterization of Two Kinetically Stable Chlorofullerenes, C60Cl28 and C60Cl30.. ChemInform, 2005, 36, no.	0.0	0
266	Preparation and Crystallographic Characterization of C60Cl24.. ChemInform, 2005, 36, no.	0.0	0
267	A [70]Fullerene Chloride, C70Cl16, Obtained by the Attempted Bromination of C70 in TiCl4.. ChemInform, 2005, 36, no.	0.0	0
268	Ab Initio and DFTâ€Based Assignment of the Vibrational Spectra of Polymerized Fullerenes. Fullerenes Nanotubes and Carbon Nanostructures, 2005, 12, 253-258.	2.1	0
269	Vibrational Structure in the Electronic Spectra of C60 and Fullerene Derivatives as Studied by Time-Dependent Density Functional Theory. ECS Transactions, 2006, 2, 121-132.	0.5	0
270	Infrared spectrum and structure of 2-thienyl-N-methylfulleropyrrolidine. Moscow University Chemistry Bulletin, 2007, 62, 72-78.	0.6	0

#	Article	IF	Citations
271	Molecular Structures and Bonding Situation in Endohedral Fullerenes. ECS Meeting Abstracts, 2009, , .	0.0	0
272	Molecular Structures and Bonding Situation in Endohedral Metallofullerenes. ECS Meeting Abstracts, 2010, , .	0.0	0
273	A Pseudoatom in a Cage: Trimetallofullerene Y3@C80 Mimics Y3@C80 with Nitrogen Substituted by a Pseudoatom. ECS Meeting Abstracts, 2010, , .	0.0	0
274	Fine-Tuning Redox Properties of Perfluoroalkylated Fullerenes: Playing with Perfluoroalkyl Groups and Addition Motifs. ECS Meeting Abstracts, 2011, , .	0.0	0
275	Titelbild: Nitrogen Directs Multiple Radical Additions to the 9,9â€²-Bi-1-aza(C60-Ih)[5,6]fullerene: X-ray Structure of 6,9,12,15,18-C59N(CF3)5 (Angew. Chem. 24/2011). Angewandte Chemie, 2011, 123, 5515-5515.	2.0	0
276	(Invited) In Situ ESR Spectroelectrochemical Study of Sc4MO2@C80: Endohedral Redox System. ECS Meeting Abstracts, 2012, , .	0.0	0
277	Structures and Stability of Fullerenes, Metallofullerenes, and Their Derivatives. , 2012, , 667-721.		0
278	The Endohedral CeIII/CeIV Redox Couple in the Nitride Clusterfullerenes. ECS Meeting Abstracts, 2013, , .	0.0	0
279	Metal Nitride Clusterfullerenes â€“ New Advances and Challenges. , 2014, , 99-135.		0
280	Computational Studies of Endohedral Fullerenes: Bonding, Isomerism, Internal Dynamics, Spectroscopy, and Chemical Reactivity. , 2014, , 315-399.		0
281	Structures and Stability of Fullerenes, Metallofullerenes, and Their Derivatives. , 2017, , 1031-1096.		0
282	(Invited) New Developments in Magnetic Properties of Endohedral Metallofullerenes. ECS Meeting Abstracts, 2021, MA2021-01, 629-629.	0.0	0
283	(Invited) Synthesis, Isolation, and Derivatization of Dimetallofullerenes. ECS Meeting Abstracts, 2021, MA2021-01, 624-624.	0.0	0
284	(Invited) Excited State of Y-Nitride Clusterfullerene: Luminescence and EPR Spectroscopy Study. ECS Meeting Abstracts, 2017, , .	0.0	0
285	(Invited) Metal-Bonding Electrons inside the Fullerene Cage: Electrochemical, Quantum Chemical and EPR Studies. ECS Meeting Abstracts, 2017, , .	0.0	0
286	(Invited) New Developments in Single Molecule Magnetism of Endohedral Metallofullerenes. ECS Meeting Abstracts, 2017, , .	0.0	0
287	Ion Radicals of Endohedral Metallofullerenes Studied by EPR Spectroscopy. Nanostructure Science and Technology, 2017, , 183-198.	0.1	0
288	Nuclear Magnetic Resonance Spectroscopy of Endohedral Metallofullerenes with Paramagnetic Metal Ions: Structure Elucidation and Magnetic Anisotropy. Nanostructure Science and Technology, 2017, , 199-212.	0.1	0

#	Article	IF	Citations
289	(Invited) Fullerene-Based Single Molecule Magnets: Bulk and Surface Magnetism. ECS Meeting Abstracts, 2018, , .	0.0	0
290	(Invited) Stable Azaheterometallofullerene M2@C79N (M = Y, Gd, Tb) in Novel Electronic and Magnetic Applications. ECS Meeting Abstracts, 2018, , .	0.0	0
291	(Invited) Synthesis and Stabilization of the Unstable Dimetallofullerenes. ECS Meeting Abstracts, 2018, , .	0.0	0
292	(Invited) New Advances in Magnetic Properties of Endohedral Metallofullerenes. ECS Meeting Abstracts, 2019, , .	0.0	0
293	(Invited) Synthesis of the Elusive Dimetallofullerenes. ECS Meeting Abstracts, 2019, , .	0.0	0
294	Endohedral metallofullerene crystals: playing with disorders. Acta Crystallographica Section A: Foundations and Advances, 2019, 75, e433-e433.	0.1	0
295	(Invited) Bulk and Surface Magnetic Properties of Endohedral Metallofullerenes. ECS Meeting Abstracts, 2020, MA2020-01, 790-790.	0.0	0
296	(Invited) Visualizing the Dynamics of Metallofullerenes with Variable Temperature Single Crystal X-Ray Diffraction. ECS Meeting Abstracts, 2020, MA2020-01, 808-808.	0.0	0
297	Bimetallic Ruâ€“Pd and Trimetallic Ruâ€“Pdâ€“Cu Assemblies on the Carborane Cluster Surface. Inorganic Chemistry, 2021, 60, 16911-16916.	4.0	0