Andrei Khlobystov

List of Publications by Year
in descending order

219	11,764	34105 52	30922 102
papers	citations	h-index	g-index

245	245	245	14212
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	An Expanded 2D Fused Aromatic Network with 90â€Ring Hexagons. Angewandte Chemie - International Edition, 2022, 61, .	13.8	14
2	Stabilization of Polyoxometalate Charge Carriers via Redoxâ€Driven Nanoconfinement in Singleâ€Walled Carbon Nanotubes. Angewandte Chemie - International Edition, 2022, 61, e202115619.	13.8	35
3	Stabilization of Polyoxometalate Charge Carriers via Redoxâ€Driven Nanoconfinement in Singleâ€Walled Carbon Nanotubes. Angewandte Chemie, 2022, 134, .	2.0	1
4	Magnetic nanoribbons with embedded cobalt grown inside single-walled carbon nanotubes. Nanoscale, 2022, 14, 1978-1989.	5.6	4
5	Defect Etching in Carbon Nanotube Walls for Porous Carbon Nanoreactors: Implications for CO₂ Sorption and the Hydrosilylation of Phenylacetylene. ACS Applied Nano Materials, 2022, 5, 2075-2086.	5.0	4
6	A Fullereneâ€“Platinum Complex for Direct Functional Patterning of Single Metal Atom-Embedded Carbon Nanostructures. Journal of Physical Chemistry Letters, 2022, 13, 1578-1586.	4.6	5
7	Influence of dissolution on the uptake of bimetallic nanoparticles Au@Ag-NPs in soil organism Eisenia fetida. Chemosphere, 2022, 302, 134909.	8.2	3
8	Antagonistic cytoprotective effects of C60 fullerene nanoparticles in simultaneous exposure to benzo[a]pyrene in a molluscan animal model. Science of the Total Environment, 2021, 755, 142355.	8.0	11
9	Imaging and analysis of covalent organic framework crystallites on a carbon surface: a nanocrystalline scaly COF/nanotube hybrid. Nanoscale, 2021, 13, 6834-6845.	5.6	5
10	Counting molecules in nano test tubes: a method for determining the activation parameters of thermally driven reactions through direct imaging. Chemical Communications, 2021, 57, 10628-10631.	4.1	1
11	Understanding charge transport in wavy 2D covalent organic frameworks. Nanoscale, 2021, 13, 6829-6833.	5.6	14
12	Single-molecule imaging and kinetic analysis of intermolecular polyoxometalate reactions. Chemical Science, 2021, 12, 7377-7387.	7.4	18
13	Graphene nanoribbons with incorporated Co atoms: Optical spectrum and magnetic response. AIP Conference Proceedings, 2021, , .	0.4	0
14	Ï€â€Interpenetrated 3D Covalent Organic Frameworks from Distorted Polycyclic Aromatic Hydrocarbons. Angewandte Chemie, 2021, 133, 10029-10034.	2.0	9
15	Epitaxy of boron nitride monolayers for graphene-based lateral heterostructures. 2D Materials, 2021, 8, 034001.	4.4	15
16	Ï€â€Interpenetrated 3D Covalent Organic Frameworks from Distorted Polycyclic Aromatic Hydrocarbons. Angewandte Chemie - International Edition, 2021, 60, 9941-9946.	13.8	65
17	Polaritonic Enhancement of Near-Field Scattering of Small Molecules Encapsulated in Boron Nitride Nanotubes: Chemical Reactions in Confined Spaces. ACS Applied Nano Materials, 2021, 4, 4335-4339.	5.0	5
18	Piecing Together Large Polycyclic Aromatic Hydrocarbons and Fullerenes: A Combined ChemTEM Imaging and MALDI-ToF Mass Spectrometry Approach. Frontiers in Chemistry, 2021, 9, 700562.	3.6	4

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19	Blurring the boundary between homogenous and heterogeneous catalysis using palladium nanoclusters with dynamic surfaces. Nature Communications, 2021, 12, 4965.	12.8	12
20	Palladium Nanoparticles Hardwired in Carbon Nanoreactors Enable Continually Increasing Electrocatalytic Activity During the Hydrogen Evolution Reaction. ChemSusChem, 2021, 14, 4973-4984.	6.8	6
21	Electrochemistry of redox-active molecules confined within narrow carbon nanotubes. Chemical Society Reviews, 2021, 50, 10895-10916.	38.1	20
22	Palladium Nanoparticles Hardwired in Carbon Nanoreactors Enable Continually Increasing Electrocatalytic Activity During the Hydrogen Evolution Reaction. ChemSusChem, 2021, 14, 4849.	6.8	1
23	Bond Dissociation and Reactivity of HF and H₂O in a Nano Test Tube. ACS Nano, 2020, 14, 11178-11189.	14.6	17
24	Atomic mechanism of metal crystal nucleus formation in a single-walled carbon nanotube. Nature Chemistry, 2020, 12, 921-928.	13.6	58
25	Direct Imaging of Atomic Permeation Through a Vacancy Defect in the Carbon Lattice. Angewandte Chemie, 2020, 132, 23122-23127.	2.0	0
26	Direct Imaging of Atomic Permeation Through a Vacancy Defect in the Carbon Lattice. Angewandte Chemie - International Edition, 2020, 59, 22922-22927.	13.8	3
27	Innentitelbild: Direct Imaging of Atomic Permeation Through a Vacancy Defect in the Carbon Lattice (Angew. Chem. 51/2020). Angewandte Chemie, 2020, 132, 22994-22994.	2.0	0
28	Accurate EELS background subtraction â€“ an adaptable method in MATLAB. Ultramicroscopy, 2020, 217, 113052.	1.9	9
29	Cerium Oxide Nanoparticles Inside Carbon Nanoreactors for Selective Allylic Oxidation of Cyclohexene. Nano Letters, 2020, 20, 1161-1171.	9.1	34
30	Imaging an unsupported metalâ€“metal bond in dirhenium molecules at the atomic scale. Science Advances, 2020, 6, eaay5849.	10.3	30
31	Step-flow growth of graphene-boron nitride lateral heterostructures by molecular beam epitaxy. 2D Materials, 2020, 7, 035014.	4.4	14
32	WS₂/MoS₂ Heterostructures through Thermal Treatment of MoS₂ Layers Electrostatically Functionalized with W₃S₄ Molecular Clusters. Chemistry - A European Journal, 2020, 26, 6670-6678.	3.3	6
33	Direct Synthesis of Multiplexed Metalâ€Nanowireâ€Based Devices by Using Carbon Nanotubes as Vector Templates. Angewandte Chemie, 2019, 131, 10033-10037.	2.0	4
34	Antagonistic Interactions between Benzo[a]pyrene and Fullerene (C60) in Toxicological Response of Marine Mussels. Nanomaterials, 2019, 9, 987.	4.1	20
35	Hostâ€“Guest Hybrid Redox Materials Selfâ€Assembled from Polyoxometalates and Singleâ€Walled Carbon Nanotubes. Advanced Materials, 2019, 31, e1904182.	21.0	77
36	An integrated approach to determine interactive genotoxic and global gene expression effects of multiwalled carbon nanotubes (MWCNTs) and benzo[a]pyrene (BaP) on marine mussels: evidence of reverse â€˜Trojan Horseâ€™ effects. Nanotoxicology, 2019, 13, 1324-1343.	3.0	9

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37	A Wavy Two-Dimensional Covalent Organic Framework from Core-Twisted Polycyclic Aromatic Hydrocarbons. Journal of the American Chemical Society, 2019, 141, 14403-14410.	13.7	63
38	Three dimensional nanoscale analysis reveals aperiodic mesopores in a covalent organic framework and conjugated microporous polymer. Nanoscale, 2019, 11, 2848-2854.	5.6	17
39	Wallâ€•and Hybridisationâ€Selective Synthesis of Nitrogenâ€Doped Doubleâ€Walled Carbon Nanotubes. Angewandte Chemie - International Edition, 2019, 58, 10276-10280.	13.8	4
40	Direct Synthesis of Multiplexed Metalâ€Nanowireâ€Based Devices by Using Carbon Nanotubes as Vector Templates. Angewandte Chemie - International Edition, 2019, 58, 9928-9932.	13.8	10
41	Coreâ€“Shell NaHoF₄@TiO₂ NPs: A Labeling Method to Trace Engineered Nanomaterials of Ubiquitous Elements in the Environment. ACS Applied Materials & Interfaces, 2019, 11, 19452-19461.	8.0	5
42	Interactions Between Nanoparticles and Carbon Nanotubes: Directing the Self-Assembly of One-Dimensional Superstructures. , 2019, , 219-236.		0
43	The effects of encapsulation on damage to molecules by electron radiation. Micron, 2019, 120, 96-103.	2.2	14
44	Steric and Electronic Control of 1,3-Dipolar Cycloaddition Reactions in Carbon Nanotube Nanoreactors. Journal of Physical Chemistry C, 2019, 123, 6294-6302.	3.1	13
45	Molybdenum Dioxide in Carbon Nanoreactors as a Catalytic Nanosponge for the Efficient Desulfurization of Liquid Fuels. Advanced Functional Materials, 2019, 29, 1808092.	14.9	81
46	Encapsulation of Cadmium Selenide Nanocrystals in Biocompatible Nanotubes: DFT Calculations, Xâ€ray Diffraction Investigations, and Confocal Fluorescence Imaging. ChemistryOpen, 2018, 7, 144-158.	1.9	15
47	Magnetic shepherding of nanocatalysts through hierarchically-assembled Fe-filled CNTs hybrids. Applied Catalysis B: Environmental, 2018, 227, 356-365.	20.2	29
48	High-temperature molecular beam epitaxy of hexagonal boron nitride layers. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2018, 36, .	1.2	31
49	Lattice-Matched Epitaxial Graphene Grown on Boron Nitride. Nano Letters, 2018, 18, 498-504.	9.1	39
50	Synthesis of hydroxylated group IV metal oxides inside hollow graphitised carbon nanofibers: nano-sponges and nanoreactors for enhanced decontamination of organophosphates. Journal of Materials Chemistry A, 2018, 6, 20444-20453.	10.3	15
51	Movement of palladium nanoparticles in hollow graphitised nanofibres: the role of migration and coalescence in nanocatalyst sintering during the Suzukiâ€“Miyaura reaction. Nanoscale, 2018, 10, 19046-19051.	5.6	12
52	Direct Correlation of Carbon Nanotube Nucleation and Growth with the Atomic Structure of Rhenium Nanocatalysts Stimulated and Imaged by the Electron Beam. Nano Letters, 2018, 18, 6334-6339.	9.1	14
53	Formation of hollow carbon nanoshells from thiol stabilised silver nanoparticles via heat treatment. Carbon, 2018, 139, 538-544.	10.3	6
54	High-Temperature Molecular Beam Epitaxy of Hexagonal Boron Nitride with High Active Nitrogen Fluxes. Materials, 2018, 11, 1119.	2.9	17

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55	Magnetically Recyclable Catalytic Carbon Nanoreactors. Advanced Functional Materials, 2018, 28, 1802869.	14.9	17
56	Comparison of atomic scale dynamics for the middle and late transition metal nanocatalysts. Nature Communications, 2018, 9, 3382.	12.8	35
57	MoirÃ©-Modulated Conductance of Hexagonal Boron Nitride Tunnel Barriers. Nano Letters, 2018, 18, 4241-4246.	9.1	19
58	Polyoxometalate Chemistry in Carbon Nanotubes. ECS Meeting Abstracts, 2018, , .	0.0	0
59	Formation of Nickel Clusters Wrapped in Carbon Cages: Toward New Endohedral Metallofullerene Synthesis. Nano Letters, 2017, 17, 1082-1089.	9.1	24
60	Stop-Frame Filming and Discovery of Reactions at the Single-Molecule Level by Transmission Electron Microscopy. ACS Nano, 2017, 11, 2509-2520.	14.6	46
61	Nanoscale engineering of hybrid magnetiteâ€“carbon nanofibre materials for magnetic resonance imaging contrast agents. Journal of Materials Chemistry C, 2017, 5, 2167-2174.	5.5	17
62	Twisted Aromatic Frameworks: Readily Exfoliable and Solutionâ€Processable Twoâ€Dimensional Conjugated Microporous Polymers. Angewandte Chemie - International Edition, 2017, 56, 6946-6951.	13.8	100
63	Twisted Aromatic Frameworks: Readily Exfoliable and Solutionâ€Processable Twoâ€Dimensional Conjugated Microporous Polymers. Angewandte Chemie, 2017, 129, 7050-7055.	2.0	21
64	Comparison of alkene hydrogenation in carbon nanoreactors of different diameters: probing the effects of nanoscale confinement on ruthenium nanoparticle catalysis. Journal of Materials Chemistry A, 2017, 5, 21467-21477.	10.3	17
65	A one-pot-one-reactant synthesis of platinum compounds at the nanoscale. Nanoscale, 2017, 9, 14385-14394.	5.6	22
66	Growth of Carbon Nanotubes inside Boron Nitride Nanotubes by Coalescence of Fullerenes: Toward the World's Smallest Coaxial Cable. Small Methods, 2017, 1, 1700184.	8.6	16
67	An atomic carbon source for high temperature molecular beam epitaxy of graphene. Scientific Reports, 2017, 7, 6598.	3.3	16
68	Chemical Reactions of Molecules Promoted and Simultaneously Imaged by the Electron Beam in Transmission Electron Microscopy. Accounts of Chemical Research, 2017, 50, 1797-1807.	15.6	79
69	Sensitization, energy transfer and infra-red emission decay modulation in Yb3+-doped NaYF4 nanoparticles with visible light through a perfluoroanthraquinone chromophore. Scientific Reports, 2017, 7, 5066.	3.3	17
70	Structureâ€“Activity Relationships of Benzenesulfonamideâ€Based Inhibitors towards Carbonic Anhydrase Isoform Specificity. ChemBioChem, 2017, 18, 213-222.	2.6	38
71	Investigation of the Interactions and Bonding between Carbon and Group VIII Metals at the Atomic Scale. Small, 2016, 12, 1649-1657.	10.0	27
72	Hexagonal Boron Nitride Tunnel Barriers Grown on Graphite by High Temperature Molecular Beam Epitaxy. Scientific Reports, 2016, 6, 34474.	3.3	60

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73	High temperature MBE of graphene on sapphire and hexagonal boron nitride flakes on sapphire. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2016, 34, .	1.2	22
74	Strain-Engineered Graphene Grown on Hexagonal Boron Nitride by Molecular Beam Epitaxy. Scientific Reports, 2016, 6, 22440.	3.3	49
75	Chemical reactions at the graphitic step-edge: changes in product distribution of catalytic reactions as a tool to explore the environment within carbon nanoreactors. Nanoscale, 2016, 8, 11727-11737.	5.6	7
76	Direct Measurement of Electron Transfer in Nanoscale Hostâ€“Guest Systems: Metallocenes in Carbon Nanotubes. Chemistry - A European Journal, 2016, 22, 13540-13549.	3.3	18
77	Extremely Stable Platinumâ€Amorphous Carbon Electrocatalyst within Hollow Graphitized Carbon Nanofibers for the Oxygen Reduction Reaction. Advanced Materials, 2016, 28, 9103-9108.	21.0	58
78	Growth of single-layer boron nitride dome-shaped nanostructures catalysed by iron clusters. Nanoscale, 2016, 8, 15079-15085.	5.6	5
79	Electrocatalysis: Extremely Stable Platinumâ€Amorphous Carbon Electrocatalyst within Hollow Graphitized Carbon Nanofibers for the Oxygen Reduction Reaction (Adv. Mater. 41/2016). Advanced Materials, 2016, 28, 9231-9231.	21.0	1
80	Cloaking by Ï€-electrons in the infrared. Physica Status Solidi (B): Basic Research, 2016, 253, 2457-2460.	1.5	3
81	Carbon Nanotubes as Electrically Active Nanoreactors for Multi-Step Inorganic Synthesis: Sequential Transformations of Molecules to Nanoclusters and Nanoclusters to Nanoribbons. Journal of the American Chemical Society, 2016, 138, 8175-8183.	13.7	68
82	Stabilising the lowest energy charge-separated state in a {metal chromophore â€“ fullerene} assembly: a tuneable panchromatic absorbing donorâ€“acceptor triad. Chemical Science, 2016, 7, 5908-5921.	7.4	15
83	Chemical reactions confined within carbon nanotubes. Chemical Society Reviews, 2016, 45, 4727-4746.	38.1	177
84	Ag-catalysed cutting of multi-walled carbon nanotubes. Nanotechnology, 2016, 27, 175604.	2.6	6
85	4-Arylbenzenesulfonamides as Human Carbonic Anhydrase Inhibitors (hCAIs): Synthesis by Pd Nanocatalyst-Mediated Suzukiâ€“Miyaura Reaction, Enzyme Inhibition, and X-ray Crystallographic Studies. Journal of Medicinal Chemistry, 2016, 59, 721-732.	6.4	33
86	Electron beam controlled covalent attachment of small organic molecules to graphene. Nanoscale, 2016, 8, 2711-2719.	5.6	28
87	Synthesis, Characterization, and Application of Coreâ€“Shell Co_{0.16}Fe_{2.84}O₄@NaYF₄(Yb, Er) and Fe₃O₄@NaYF₄(Yb, Tm) Nanoparticle as Trimodal (MRI, PET/SPECT,) Tj ETQq1 1 0.784314 rgB	3.6	59
88	Transmission Electron Microscopy: Isotope Substitution Extends the Lifetime of Organic Molecules in Transmission Electron Microscopy (Small 5/2015). Small, 2015, 11, 510-510.	10.0	4
89	Palladium nanoparticles in catalytic carbon nanoreactors: the effect of confinement on Suzukiâ€“Miyaura reactions. Journal of Materials Chemistry A, 2015, 3, 3918-3927.	10.3	36
90	Dynamics of Gold Nanoparticles on Carbon Nanostructures Driven by van der Waals and Electrostatic Interactions. Small, 2015, 11, 2756-2761.	10.0	12

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91	Harnessing the Synergistic and Complementary Properties of Fullerene and Transition-Metal Compounds for Nanomaterial Applications. Chemical Reviews, 2015, 115, 11301-11351.	47.7	118
92	Biotechnological promises of Fe-filled CNTs for cell shepherding and magnetic fluid hyperthermia applications. Nanoscale, 2015, 7, 20474-20488.	5.6	18
93	Switching intermolecular interactions by confinement in carbon nanotubes. Chemical Communications, 2015, 51, 648-651.	4.1	5
94	Isotope Substitution Extends the Lifetime of Organic Molecules in Transmission Electron Microscopy. Small, 2015, 11, 622-629.	10.0	39
95	Tuning the interactions between electron spins in fullerene-based triad systems. Beilstein Journal of Organic Chemistry, 2014, 10, 332-343.	2.2	8
96	Single-walled carbon nanotubes as nano-electrode and nano-reactor to control the pathways of a redox reaction. Chemical Communications, 2014, 50, 14338-14340.	4.1	15
97	Creating and testing carbon interfaces â€“ integrating oligomeric phthalocyanines onto single walled carbon nanotubes. Faraday Discussions, 2014, 172, 61-79.	3.2	7
98	Evaluating the Effects of Carbon Nanoreactor Diameter and Internal Structure on the Pathways of the Catalytic Hydrosilylation Reaction. Small, 2014, 10, 1866-1872.	10.0	14
99	Fullerene-driven encapsulation of a luminescent Eu(iii) complex in carbon nanotubes. Nanoscale, 2014, 6, 2887.	5.6	9
100	New Pathway for Heterogenization of Molecular Catalysts by Non-covalent Interactions with Carbon Nanoreactors. Chemistry of Materials, 2014, 26, 6461-6466.	6.7	23
101	The atomistic mechanism of carbon nanotube cutting catalyzed by nickel under an electron beam. Nanoscale, 2014, 6, 14877-14890.	5.6	19
102	Controlled oxidative cutting of carbon nanotubes catalysed by silver nanoparticles. Journal of Materials Chemistry C, 2014, 2, 8357-8363.	5.5	14
103	Catalytic nanoreactors in continuous flow: hydrogenation inside single-walled carbon nanotubes using supercritical CO₂. Chemical Communications, 2014, 50, 5200-5202.	4.1	27
104	Interactions of carbon nanotubes and gold nanoparticles: the effects of solvent dielectric constant and temperature on controlled assembly of superstructures. Dalton Transactions, 2014, 43, 7400.	3.3	12
105	Organometallic and coordination chemistry of carbon nanomaterials. Dalton Transactions, 2014, 43, 7345.	3.3	10
106	The effects of interactions between proline and carbon nanostructures on organocatalysis in the Hajosâ€“Parrishâ€“Ederâ€“Sauerâ€“Wiechert reaction. Nanoscale, 2014, 6, 11141-11146.	5.6	3
107	Electronic Property Modification of Singleâ€Walled Carbon Nanotubes by Encapsulation of Sulfurâ€Terminated Graphene Nanoribbons. Small, 2014, 10, 5077-5086.	10.0	9
108	Interactions and Chemical Transformations of Coronene Inside and Outside Carbon Nanotubes. Small, 2014, 10, 1369-1378.	10.0	33

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109	In situ heating and tomography of gold nanoparticles on carbon structures. Journal of Physics: Conference Series, 2014, 522, 012073.	0.4	0
110	Synthesis, X-ray crystallography and electrochemistry of three novel copper complexes with imidazole-containing hydantoin and thiohydantoins. Polyhedron, 2013, 63, 15-20.	2.2	15
111	Transition Metal Complexes of a Salenâ€“Fullerene Diad: Redox and Catalytically Active Nanostructures for Delivery of Metals in Nanotubes. Chemistry - A European Journal, 2013, 19, 11999-12008.	3.3	15
112	Regioselective control of aromatic halogenation reactions in carbon nanotube nanoreactors. Chemical Communications, 2013, 49, 5586.	4.1	33
113	Palladium nanoparticles on carbon nanotubes as catalysts of cross-coupling reactions. Journal of Materials Chemistry A, 2013, 1, 8737.	10.3	77
114	Competitive hydrosilylation in carbon nanoreactors: probing the effect of nanoscale confinement on selectivity. Nanoscale, 2013, 5, 12200.	5.6	35
115	Producing nanotubes of biocompatible hydroxyapatite by continuous hydrothermal synthesis. CrystEngComm, 2013, 15, 3256.	2.6	35
116	Click chemistry in carbon nanoreactors. Chemical Communications, 2013, 49, 1067.	4.1	40
117	Cleavage of the Câ€“S bond with the formation of a binuclear copper complex with 2-thiolato-3-phenyl-5-(pyridine-2-ylmethylene)-3,5-dihydro-4H-imidazole-4-one. A new mimic of the active site of N2O reductase. Dalton Transactions, 2013, 42, 6290.	3.3	27
118	Triad and cyclic diad compounds of [60]fullerene with metallocenes. Dalton Transactions, 2013, 42, 5056.	3.3	8
119	Graphene-modified LiFePO4 cathode for lithium ion battery beyond theoretical capacity. Nature Communications, 2013, 4, 1687.	12.8	481
120	A two-step approach to the synthesis of N@C60 fullerene dimers for molecular qubits. Chemical Science, 2013, 4, 2971.	7.4	28
121	The effect of carbon nanotubes on chiral chemical reactions. Chemical Physics Letters, 2013, 557, 10-14.	2.6	17
122	Alignment of N@C₆₀ Derivatives in a Liquid Crystal Matrix. Journal of Physical Chemistry B, 2013, 117, 5925-5931.	2.6	18
123	Assembly and Magnetic Bistability of Mn₃O₄ Nanoparticles Encapsulated in Hollow Carbon Nanofibers. Angewandte Chemie - International Edition, 2013, 52, 2051-2054.	13.8	23
124	Interactions and Reactions of Transition Metal Clusters with the Interior of Single-Walled Carbon Nanotubes Imaged at the Atomic Scale. Journal of the American Chemical Society, 2012, 134, 3073-3079.	13.7	83
125	Engineering molecular chains in carbon nanotubes. Nanoscale, 2012, 4, 7540.	5.6	6
126	N@C₆₀â€“Porphyrin: A Dyad of Two Radical Centers. Journal of the American Chemical Society, 2012, 134, 1938-1941.	13.7	34

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127	Catalytic and non-catalytic roles of pendant groups in the decomposition of N@C60: a DFT investigation. Chemical Communications, 2012, 48, 5148.	4.1	3
128	High-Nuclearity Metalâ€“Organic Nanospheres: A Cd₆₆ Ball. Journal of the American Chemical Society, 2012, 134, 55-58.	13.7	61
129	Assembly, Growth, and Catalytic Activity of Gold Nanoparticles in Hollow Carbon Nanofibers. ACS Nano, 2012, 6, 2000-2007.	14.6	83
130	Chiral graphene nanoribbon inside a carbon nanotube: ab initio study. Nanoscale, 2012, 4, 4522.	5.6	32
131	Controlling the Regioselectivity of the Hydrosilylation Reaction in Carbon Nanoreactors. Chemistry - A European Journal, 2012, 18, 13180-13187.	3.3	47
132	Size, Structure, and Helical Twist of Graphene Nanoribbons Controlled by Confinement in Carbon Nanotubes. ACS Nano, 2012, 6, 3943-3953.	14.6	134
133	Formation of uncapped nanometre-sized metal particles by decomposition of metal carbonyls in carbon nanotubes. Chemical Science, 2012, 3, 1919.	7.4	49
134	Analysis of few-nm sized metal nanoparticles on carbon nanostructures. Journal of Physics: Conference Series, 2012, 371, 012066.	0.4	0
135	Interactions of Gold Nanoparticles with the Interior of Hollow Graphitized Carbon Nanofibers. Small, 2012, 8, 1222-1228.	10.0	29
136	Chemistry at the Nanoscale: Synthesis of an N@C₆₀â€“N@C₆₀ Endohedral Fullerene Dimer. Angewandte Chemie - International Edition, 2012, 51, 3587-3590.	13.8	40
137	An efficient route to the synthesis of symmetric and asymmetric diastereomerically pure fullerene triads. Tetrahedron, 2012, 68, 4976-4985.	1.9	5
138	Functionalised endohedral fullerenes in single-walled carbon nanotubes. Chemical Communications, 2011, 47, 2116-2118.	4.1	45
139	Encapsulation of transition metal atoms into carbon nanotubes: a supramolecular approach. Chemical Communications, 2011, 47, 5696.	4.1	24
140	Functionalized Fullerenes in Self-Assembled Monolayers. Langmuir, 2011, 27, 10977-10985.	3.5	45
141	Encapsulation of single-molecule magnets in carbon nanotubes. Nature Communications, 2011, 2, 407.	12.8	147
142	Carbon Nanotubes: From Nano Test Tube to Nano-Reactor. ACS Nano, 2011, 5, 9306-9312.	14.6	168
143	Transmission electron microscopy at 20kV for imaging and spectroscopy. Ultramicroscopy, 2011, 111, 1239-1246.	1.9	178
144	High-Quality Thin Graphene Films from Fast Electrochemical Exfoliation. ACS Nano, 2011, 5, 2332-2339.	14.6	896

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145	Self-assembly of a sulphur-terminated graphene nanoribbon within a single-walled carbon nanotube. Nature Materials, 2011, 10, 687-692.	27.5	253
146	Reactions of the inner surface of carbon nanotubes and nanoprotrusion processes imaged at the atomic scale. Nature Chemistry, 2011, 3, 732-737.	13.6	83
147	A Piggyback Ride for Transition Metals: Encapsulation of Exohedral Metallofullerenes in Carbon Nanotubes. Chemistry - A European Journal, 2011, 17, 668-674.	3.3	34
148	Multiâ€Electronâ€Acceptor Dyad and Triad Systems Based on Perylene Bisimides and Fullerenes. Chemistry - A European Journal, 2011, 17, 3759-3767.	3.3	36
149	Photochemical stability of N@C60 and its pyrrolidine derivatives. Chemical Physics Letters, 2011, 508, 187-190.	2.6	18
150	Copper(ii) coordination compounds as building blocks for the formation of gold nanoparticle dimers. Mendeleev Communications, 2011, 21, 129-131.	1.6	6
151	UVâ€“vis absorption spectroscopy of carbon nanotubes: Relationship between the Ï€-electron plasmon and nanotube diameter. Chemical Physics Letters, 2010, 493, 19-23.	2.6	155
152	Observations of Chemical Reactions at the Atomic Scale: Dynamics of Metalâ€Mediated Fullerene Coalescence and Nanotube Rupture. Angewandte Chemie - International Edition, 2010, 49, 193-196.	13.8	52
153	Investigation of fullerene encapsulation in carbon nanotubes using a complex approach based on vibrational spectroscopy. Physica Status Solidi (B): Basic Research, 2010, 247, 2743-2745.	1.5	21
154	Direct transformation of graphene to fullerene. Nature Chemistry, 2010, 2, 450-453.	13.6	361
155	Nanoparticle-nanotube electrostatic interactions in solution: the effect of pH and ionic strength. Physical Chemistry Chemical Physics, 2010, 12, 10775.	2.8	28
156	Electronic structure changes in cobalt phthalocyanine due to nanotube encapsulation probed using resonant inelastic X-ray scattering. Physical Chemistry Chemical Physics, 2010, 12, 9693.	2.8	27
157	Transport and encapsulation of gold nanoparticles in carbon nanotubes. Nanoscale, 2010, 2, 1006.	5.6	35
158	van der Waals Interactions between Nanotubes and Nanoparticles for Controlled Assembly of Composite Nanostructures. ACS Nano, 2010, 4, 4920-4928.	14.6	163
159	The Role of Molecular Clusters in the Filling of Carbon Nanotubes. ACS Nano, 2010, 4, 5203-5210.	14.6	34
160	Endohedral metallofullerenes in self-assembled monolayers. Physical Chemistry Chemical Physics, 2010, 12, 123-131.	2.8	20
161	Revealing Subsurface Vibrational Modes by Atom-Resolved Damping Force Spectroscopy. Physical Review Letters, 2009, 102, 195503.	7.8	14
162	Dynamic Equilibria in Solventâ€Mediated Anion, Cation and Ligand Exchange in Transitionâ€Metal Coordination Polymers: Solidâ€State Transfer or Recrystallisation?. Chemistry - A European Journal, 2009, 15, 8861-8873.	3.3	118

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