Maurizio Prato

List of Publications by Year
in descending order

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748 papers	77,053 citations	587 125 h-index	750 250 g-index
865 all docs	865 docs citations	865 times ranked	55268 citing authors

#	Article	IF	Citations
1	Chemistry of Carbon Nanotubes. Chemical Reviews, 2006, 106, 1105-1136.	23.0	3,905
2	Science and technology roadmap for graphene, related two-dimensional crystals, and hybrid systems. Nanoscale, 2015, 7, 4598-4810.	2.8	2,452
3	Applications of carbon nanotubes in drug delivery. Current Opinion in Chemical Biology, 2005, 9, 674-679.	2.8	1,705
4	Addition of azomethine ylides to C60: synthesis, characterization, and functionalization of fullerene pyrrolidines. Journal of the American Chemical Society, 1993, 115, 9798-9799.	6.6	1,261
5	Organic Functionalization of Carbon Nanotubes. Journal of the American Chemical Society, 2002, 124, 760-761.	6.6	1,193
6	Excited-State Properties of C60 Fullerene Derivatives. Accounts of Chemical Research, 2000, 33, 695-703.	7.6	1,063
7	Cellular uptake of functionalized carbon nanotubes is independent of functional group and cell type. Nature Nanotechnology, 2007, 2, 108-113.	15.6	1,035
8	Translocation of bioactive peptides across cell membranes by carbon nanotubesElectronic supplementary information (ESI) available: details of the synthesis and characterization, cell culture, TEM, epifluorescence and confocal microscopy images of CNTs 1, 2 and fluorescein. See http://www.rsc.org/suppdata/cc/b3/b311254c/. Chemical Communications, 2004, , 16.	2.2	1,000
9	Tissue biodistribution and blood clearance rates of intravenously administered carbon nanotube radiotracers. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 3357-3362.	3.3	995
10	Functionalized Carbon Nanotubes in Drug Design and Discovery. Accounts of Chemical Research, 2008, 41, 60-68.	7.6	994
11	Functionalized Carbon Nanotubes for Plasmid DNA Gene Delivery. Angewandte Chemie - International Edition, 2004, 43, 5242-5246.	7.2	977
12	Diverse Applications of Nanomedicine. ACS Nano, 2017, 11, 2313-2381.	7.3	976
13	Biomedical applications of functionalised carbon nanotubes. Chemical Communications, 2005, , 571.	2.2	953
14	Molecular design of strong single-wall carbon nanotube/polyelectrolyte multilayer composites. Nature Materials, 2002, 1, 190-194.	13.3	949
15	Fulleropyrrolidines:â€‰ A Family of Full-Fledged Fullerene Derivatives. Accounts of Chemical Research, 1998, 31, 519-526.	7.6	816
16	[60]Fullerene chemistry for materials science applications. Journal of Materials Chemistry, 1997, 7, 1097-1109.	6.7	780
17	Fullerene derivatives: an attractive tool for biological applications. European Journal of Medicinal Chemistry, 2003, 38, 913-923.	2.6	780
18	Carbon nanotubes as nanomedicines: From toxicology to pharmacologyâ˜†. Advanced Drug Delivery Reviews, 2006, 58, 1460-1470.	6.6	749

#	Article	IF	Citations
19	Promises, facts and challenges for carbon nanotubes in imaging and therapeutics. Nature Nanotechnology, 2009, 4, 627-633.	15.6	738
20	Binding and Condensation of Plasmid DNA onto Functionalized Carbon Nanotubes:Â Toward the Construction of Nanotube-Based Gene Delivery Vectors. Journal of the American Chemical Society, 2005, 127, 4388-4396.	6.6	726
21	Functionalized Carbon Nanotubes Are Non-Cytotoxic and Preserve the Functionality of Primary Immune Cells. Nano Letters, 2006, 6, 1522-1528.	4.5	652
22	Nanocomposite Hydrogels: 3D Polymerâ€“Nanoparticle Synergies for On-Demand Drug Delivery. ACS Nano, 2015, 9, 4686-4697.	7.3	624
23	Decorating carbon nanotubes with metal or semiconductor nanoparticles. Journal of Materials Chemistry, 2007, 17, 2679.	6.7	622
24	Carbon Nanotube Substrates Boost Neuronal Electrical Signaling. Nano Letters, 2005, 5, 1107-1110.	4.5	614
25	Targeted Delivery of Amphotericin B to Cells by Using Functionalized Carbon Nanotubes. Angewandte Chemie - International Edition, 2005, 44, 6358-6362.	7.2	592
26	Promises, facts and challenges for graphene in biomedical applications. Chemical Society Reviews, 2017, 46, 4400-4416.	18.7	564
27	Soluble Carbon Nanotubes. Chemistry - A European Journal, 2003, 9, 4000-4008.	1.7	558
28	Organic functionalisation and characterisation of single-walled carbon nanotubes. Chemical Society Reviews, 2009, 38, 2214.	18.7	557
29	Synthesis, Structural Characterization, and Immunological Properties of Carbon Nanotubes Functionalized with Peptides. Journal of the American Chemical Society, 2003, 125, 6160-6164.	6.6	507
30	Immunization with Peptide-Functionalized Carbon Nanotubes Enhances Virus-Specific Neutralizing Antibody Responses. Chemistry and Biology, 2003, 10, 961-966.	6.2	492
31	Functionalized carbon nanotubes as emerging nanovectors for the delivery of therapeutics. Biochimica Et Biophysica Acta - Biomembranes, 2006, 1758, 404-412.	1.4	477
32	Carbon nanotubes might improve neuronal performance by favouring electrical shortcuts. Nature Nanotechnology, 2009, 4, 126-133.	15.6	473
33	Nanomaterials for Neural Interfaces. Advanced Materials, 2009, 21, 3970-4004.	11.1	460
34	Efficient water oxidation at carbon nanotubeâ€“polyoxometalate electrocatalytic interfaces. Nature Chemistry, 2010, 2, 826-831.	6.6	459
35	Carbon Nanotubes in Electron Donorâ^’Acceptor Nanocomposites. Accounts of Chemical Research, 2005, 38, 871-878.	7.6	453
36	Safety Assessment of Graphene-Based Materials: Focus on Human Health and the Environment. ACS Nano, 2018, 12, 10582-10620.	7.3	438

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37	Medicinal chemistry with fullerenes and fullerene derivatives. Chemical Communications, 1999, , 663-669.	2.2	430
38	Functionalization of Graphene via 1,3-Dipolar Cycloaddition. ACS Nano, 2010, 4, 3527-3533.	7.3	407
39	Double functionalisation of carbon nanotubes for multimodal drug delivery. Chemical Communications, 2006, , 1182.	2.2	374
40	A multifunctional chemical toolbox to engineer carbon dots for biomedical and energy applications. Nature Nanotechnology, 2022, 17, 112-130.	15.6	370
41	Classification Framework for Grapheneâ€Based Materials. Angewandte Chemie - International Edition, 2014, 53, 7714-7718.	7.2	369
42	Addition of azides to fullerene C60: synthesis of azafulleroids. Journal of the American Chemical Society, 1993, 115, 1148-1150.	6.6	349
43	N-Doped Graphitized Carbon Nanohorns as a Forefront Electrocatalyst in Highly Selective O2 Reduction to H2O2. CheM, 2018, 4, 106-123.	5.8	348
44	Biomedical Uses for 2D Materials Beyond Graphene: Current Advances and Challenges Ahead. Advanced Materials, 2016, 28, 6052-6074.	11.1	335
45	Production and processing of graphene and related materials. 2D Materials, 2020, 7, 022001.	2.0	333
46	Interfacing Neurons with Carbon Nanotubes: Electrical Signal Transfer and Synaptic Stimulation in Cultured Brain Circuits. Journal of Neuroscience, 2007, 27, 6931-6936.	1.7	329
47	Intramolecular Electron Transfer in Fullerene/Ferrocene Based Donorâ^'Bridgeâ^'Acceptor Dyads. Journal of the American Chemical Society, 1997, 119, 974-980.	6.6	327
48	Multiwalled carbon nanotubeâ€“doxorubicin supramolecular complexes for cancer therapeutics. Chemical Communications, 2008, , 459-461.	2.2	327
49	Can Carbon Nanotubes be Considered Useful Tools for Biological Applications?. Advanced Materials, 2003, 15, 1765-1768.	11.1	323
50	Making carbon nanotubes biocompatible and biodegradable. Chemical Communications, 2011, 47, 10182.	2.2	323
51	Interactions in Single Wall Carbon Nanotubes/Pyrene/Porphyrin Nanohybrids. Journal of the American Chemical Society, 2006, 128, 11222-11231.	6.6	320
52	Amino acid functionalisation of water soluble carbon nanotubes. Chemical Communications, 2002, , 3050-3051.	2.2	312
53	Facile Decoration of Functionalized Single-Wall Carbon Nanotubes with Phthalocyanines via â€œClick Chemistryâ€. Journal of the American Chemical Society, 2008, 130, 11503-11509.	6.6	308
54	Few-layer graphenes from ball-milling of graphite with melamine. Chemical Communications, 2011, 47, 10936.	2.2	299

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55	Length-Dependent Retention of Carbon Nanotubes in the Pleural Space of Mice Initiates Sustained Inflammation and Progressive Fibrosis on the Parietal Pleura. American Journal of Pathology, 2011, 178, 2587-2600.	1.9	278
56	Functionalization of carbon nanotubes via 1,3-dipolar cycloadditions. Journal of Materials Chemistry, 2004, 14, 437.	6.7	275
57	Synthesis and electrochemical properties of substituted fulleropyrrolidines. Tetrahedron, 1996, 52, 5221-5234.	1.0	272
58	Carbon Nanotubes and Microwaves: Interactions, Responses, and Applications. ACS Nano, 2009, 3, 3819-3824.	7.3	270
59	Cationic Carbon Nanotubes Bind to CpG Oligodeoxynucleotides and Enhance Their Immunostimulatory Properties. Journal of the American Chemical Society, 2005, 127, 58-59.	6.6	269
60	Synthesis, Separation, and Characterization of Small and Highly Fluorescent Nitrogenâ€Doped Carbon NanoDots. Angewandte Chemie - International Edition, 2016, 55, 2107-2112.	7.2	266
61	Fullerene C60 as a multifunctional system for drug and gene delivery. Nanoscale, 2011, 3, 4035.	2.8	263
62	Dendrimer-Functionalized Single-Wall Carbon Nanotubes:Â Synthesis, Characterization, and Photoinduced Electron Transfer. Journal of the American Chemical Society, 2006, 128, 12544-12552.	6.6	254
63	There Is a Hole in My Bucky. Journal of the American Chemical Society, 1995, 117, 7003-7004.	6.6	251
64	The Rise of Hydrogen Peroxide as the Main Product by Metalâ€Free Catalysis in Oxygen Reductions. Advanced Materials, 2019, 31, e1802920.	11.1	251
65	Targeting carbon nanotubes against cancer. Chemical Communications, 2012, 48, 3911.	2.2	248
66	Integrating Single-Wall Carbon Nanotubes into Donor-Acceptor Nanohybrids. Angewandte Chemie - International Edition, 2004, 43, 5526-5530.	7.2	244
67	Exfoliation of Graphite with Triazine Derivatives under Ball-Milling Conditions: Preparation of Few-Layer Graphene via Selective Noncovalent Interactions. ACS Nano, 2014, 8, 563-571.	7.3	241
68	Cell-penetrating CNTs for delivery of therapeutics. Nano Today, 2007, 2, 38-43.	6.2	238
69	Single-Wall Carbon Nanotubes as Integrative Building Blocks for Solar-Energy Conversion. Angewandte Chemie - International Edition, 2005, 44, 2015-2018.	7.2	232
70	Organic Functionalization of Graphene in Dispersions. Accounts of Chemical Research, 2013, 46, 138-148.	7.6	229
71	Translocation mechanisms of chemically functionalised carbon nanotubes across plasma membranes. Biomaterials, 2012, 33, 3334-3343.	5.7	224
72	The Covalent Functionalization of Graphene on Substrates. Angewandte Chemie - International Edition, 2015, 54, 10734-10750.	7.2	221

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73	CNTâ^'CdTe Versatile Donorâ^'Acceptor Nanohybrids. Journal of the American Chemical Society, 2006, 128, 2315-2323.	6.6	219
74	Functional motor recovery from brain ischemic insult by carbon nanotube-mediated siRNA silencing. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 10952-10957.	3.3	217
75	Manipulating single-wall carbon nanotubes by chemical doping and charge transfer with perylene dyes. Nature Chemistry, 2009, 1, 243-249.	6.6	215
76	Purification of HiPCO Carbon Nanotubes via Organic Functionalization. Journal of the American Chemical Society, 2002, 124, 14318-14319.	6.6	210
77	Multipurpose Organically Modified Carbon Nanotubes: From Functionalization to Nanotube Composites. Journal of the American Chemical Society, 2008, 130, 8733-8740.	6.6	209
78	Graphene-Based Interfaces Do Not Alter Target Nerve Cells. ACS Nano, 2016, 10, 615-623.	7.3	208
79	Novel Photoactive Single-Walled Carbon Nanotube-Porphyrin Polymer Wraps: Efficient and Long-Lived Intracomplex Charge Separation. Advanced Materials, 2005, 17, 871-875.	11.1	207
80	Endowing carbon nanotubes with biological and biomedical properties by chemical modifications. Advanced Drug Delivery Reviews, 2013, 65, 1899-1920.	6.6	206
81	Amineâ€Rich Nitrogenâ€Doped Carbon Nanodots as a Platform for Selfâ€Enhancing Electrochemiluminescence. Angewandte Chemie - International Edition, 2017, 56, 4757-4761.	7.2	201
82	Dynamic Imaging of Functionalized Multiâ€Walled Carbon Nanotube Systemic Circulation and Urinary Excretion. Advanced Materials, 2008, 20, 225-230.	11.1	196
83	Carbon Nanotubes Promote Growth and Spontaneous Electrical Activity in Cultured Cardiac Myocytes. Nano Letters, 2012, 12, 1831-1838.	4.5	196
84	Supramolecular self-assembled fullerene nanostructures. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 5075-5080.	3.3	191
85	Single-Wall Carbon Nanotubeâ€"Ferrocene Nanohybrids: Observing Intramolecular Electron Transfer in Functionalized SWNTs. Angewandte Chemie - International Edition, 2003, 42, 4206-4209.	7.2	188
86	Functional Single-Wall Carbon Nanotube NanohybridsAssociating SWNTs with Water-Soluble Enzyme Model Systems. Journal of the American Chemical Society, 2005, 127, 9830-9838.	6.6	186
87	C60 Derivative Covalently Linked to a Nitroxide Radical: Time-Resolved EPR Evidence of Electron Spin Polarization by Intramolecular Radical-Triplet Pair Interaction. Journal of the American Chemical Society, 1995, 117, 8857-8858.	6.6	179
88	Ordering Fullerene Materials at Nanometer Dimensions. Accounts of Chemical Research, 2005, 38, 38-43.	7.6	177
89	Carbonâ€Nanotube Shape and Individualization Critical for Renal Excretion. Small, 2008, 4, 1130-1132.	5.2	172
90	Design, Synthesis, and Functionalization Strategies of Tailored Carbon Nanodots. Accounts of Chemical Research, 2019, 52, 2070-2079.	7.6	172

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91	Easy Access to Water-Soluble Fullerene Derivatives via 1,3-Dipolar Cycloadditions of Azomethine Ylides to C60. Journal of Organic Chemistry, 1996, 61, 9070-9072.	1.7	169
92	Design principles of chiral carbon nanodots help convey chirality from molecular to nanoscale level. Nature Communications, 2018, 9, 3442.	5.8	169
93	Synthesis and Characterization of a Carbon Nanotubeâ^'Dendron Series for Efficient siRNA Delivery. Journal of the American Chemical Society, 2009, 131, 9843-9848.	6.6	168
94	Synthesis, Characterization, and Photoinduced Electron Transfer in Functionalized Single Wall Carbon Nanohorns. Journal of the American Chemical Society, 2007, 129, 3938-3945.	6.6	166
95	[3 + 2] and [4 + 2] Cycloadditions of fullerene C60. Journal of the American Chemical Society, 1993, 115, 1594-1595.	6.6	163
96	Materials chemistry of fullerene C₆₀derivatives. Journal of Materials Chemistry, 2011, 21, 1305-1318.	6.7	159
97	Biocompatibility and biodegradability of 2D materials: graphene and beyond. Chemical Communications, 2019, 55, 5540-5546.	2.2	158
98	Parallel (Face-to-Face) Versus Perpendicular (Edge-to-Face) Alignment of Electron Donors and Acceptors in Fullerene Porphyrin Dyads:Â The Importance of Orientation in Electron Transfer. Journal of the American Chemical Society, 2001, 123, 9166-9167.	6.6	157
99	Microwave-Induced Multiple Functionalization of Carbon Nanotubes. Journal of the American Chemical Society, 2008, 130, 8094-8100.	6.6	157
100	Antitumor Activity and Prolonged Survival by Carbonâ€Nanotubeâ€Mediated Therapeutic siRNA Silencing in a Human Lung Xenograft Model. Small, 2009, 5, 1176-1185.	5.2	153
101	Asbestosâ€like Pathogenicity of Long Carbon Nanotubes Alleviated by Chemical Functionalization. Angewandte Chemie - International Edition, 2013, 52, 2274-2278.	7.2	153
102	Ring Expansion of the Fullerene Core by Highly Regioselective Formation of Diazafulleroids. Angewandte Chemie International Edition in English, 1995, 34, 1343-1345.	4.4	152
103	Energetic preference in 5,6 and 6,6 ring junction adducts of C60: fulleroids and methanofullerenes. Journal of the American Chemical Society, 1993, 115, 8479-8480.	6.6	151
104	Arachidonic Acid Released by Phospholipase A2 Activation Triggers Ca2+-dependent Apoptosis through the Mitochondrial Pathway. Journal of Biological Chemistry, 2004, 279, 25219-25225.	1.6	151
105	Tissue histology and physiology following intravenous administration of different types of functionalized multiwalled carbon nanotubes. Nanomedicine, 2008, 3, 149-161.	1.7	149
106	Opportunities and challenges of carbon-based nanomaterials for cancer therapy. Expert Opinion on Drug Delivery, 2008, 5, 331-342.	2.4	147
107	Nanoscale Organization of a Phthalocyanineâ^'Fullerene System:â€‰ Remarkable Stabilization of Charges in Photoactive 1-D Nanotubules. Journal of the American Chemical Society, 2005, 127, 5811-5813.	6.6	145
108	Carbon Nanotube Scaffolds Tune Synaptic Strength in Cultured Neural Circuits: Novel Frontiers in Nanomaterialâ€“Tissue Interactions. Journal of Neuroscience, 2011, 31, 12945-12953.	1.7	142

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109	Differential cytotoxic effects of graphene and graphene oxide on skin keratinocytes. Scientific Reports, 2017, 7, 40572.	1.6	141
110	High-yield production of 2D crystals by wet-jet milling. Materials Horizons, 2018, 5, 890-904.	6.4	139
111	Nitrogen-doped carbon nanodots for bioimaging and delivery of paclitaxel. Journal of Materials Chemistry B, 2018, 6, 5540-5548.	2.9	139
112	Carbon nanotubes in neuroregeneration and repair. Advanced Drug Delivery Reviews, 2013, 65, 2034-2044.	6.6	137
113	Synthesis, Chiroptical Properties, and Configurational Assignment of Fulleroproline Derivatives and Peptides. Journal of the American Chemical Society, 1996, 118, 4072-4080.	6.6	136
114	Novel Versatile Fullerene Synthons. Journal of Organic Chemistry, 2001, 66, 4915-4920.	1.7	136
115	Properties and behavior of carbon nanomaterials when interfacing neuronal cells: How far have we come?. Carbon, 2019, 143, 430-446.	5.4	135
116	Grapheneâ€Based Electroresponsive Scaffolds as Polymeric Implants for Onâ€Demand Drug Delivery. Advanced Healthcare Materials, 2014, 3, 1334-1343.	3.9	134
117	Anti-HIV properties of cationic fullerene derivatives. Bioorganic and Medicinal Chemistry Letters, 2005, 15, 3615-3618.	1.0	133
118	Graphene Oxide Nanosheets Reshape Synaptic Function in Cultured Brain Networks. ACS Nano, 2016, 10, 4459-4471.	7.3	133
119	Metal-free dual-phase full organic carbon nanotubes/g-C3N4 heteroarchitectures for photocatalytic hydrogen production. Nano Energy, 2018, 50, 468-478.	8.2	133
120	Hierarchical organization of perylene bisimides and polyoxometalates for photo-assisted water oxidation. Nature Chemistry, 2019, 11, 146-153.	6.6	132
121	Enhanced anticancer activity of multi-walled carbon nanotubeâ€“methotrexate conjugates using cleavable linkers. Chemical Communications, 2010, 46, 1494-1496.	2.2	131
122	Phthalocyanineâ^'Pyrene Conjugates: A Powerful Approach toward Carbon Nanotube Solar Cells. Journal of the American Chemical Society, 2010, 132, 16202-16211.	6.6	131
123	Combining Single Wall Carbon Nanotubes and Photoactive Polymers for Photoconversion. Journal of the American Chemical Society, 2005, 127, 10051-10057.	6.6	130
124	Efficient Charge Separation in Porphyrin-Fullerene-Ligand Complexes. Chemistry - A European Journal, 2001, 7, 816-827.	1.7	128
125	Electronically interacting single wall carbon nanotubeâ€“porphyrin nanohybrids. Journal of Materials Chemistry, 2006, 16, 62-65.	6.7	127
126	Spinal Cord Explants Use Carbon Nanotube Interfaces To Enhance Neurite Outgrowth and To Fortify Synaptic Inputs. ACS Nano, 2012, 6, 2041-2055.	7.3	127

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127	High-Yield Preparation of Exfoliated 1T-MoS₂ with SERS Activity. Chemistry of Materials, 2019, 31, 5725-5734.	3.2	126
128	Antimycobacterial activity of ionic fullerene derivatives. Bioorganic and Medicinal Chemistry Letters, 2000, 10, 1043-1045.	1.0	125
129	Reversible zinc phthalocyanine fullerene ensembles. Chemical Communications, 2002, , 2774-2775.	2.2	125
130	Fullerenes: Multitask Components in Molecular Machinery. Angewandte Chemie - International Edition, 2007, 46, 8120-8126.	7.2	125
131	Spectroscopic Characterization of Photolytically Generated Radical Ion Pairs in Single-Wall Carbon Nanotubes Bearing Surface-Immobilized Tetrathiafulvalenes. Journal of the American Chemical Society, 2008, 130, 66-73.	6.6	125
132	From 2D to 3D: novel nanostructured scaffolds to investigate signalling in reconstructed neuronal networks. Scientific Reports, 2015, 5, 9562.	1.6	125
133	Protein surface recognition and proteomimetics: mimics of protein surface structure and function. Current Opinion in Chemical Biology, 2005, 9, 632-638.	2.8	122
134	Isolation and Characterization of All Eight Bisadducts of Fulleropyrrolidine Derivatives. Journal of Organic Chemistry, 2001, 66, 2802-2808.	1.7	121
135	A Bioactive Fullerene Peptide. Journal of Medicinal Chemistry, 1994, 37, 4558-4562.	2.9	120
136	Single-layer graphene modulates neuronal communication and augments membrane ion currents. Nature Nanotechnology, 2018, 13, 755-764.	15.6	120
137	Oxygen vacancies and interfaces enhancing photocatalytic hydrogen production in mesoporous CNT/TiO2 hybrids. Applied Catalysis B: Environmental, 2015, 179, 574-582.	10.8	117
138	Reversible Microwave-Assisted Cycloaddition of Aziridines to Carbon Nanotubes. Journal of the American Chemical Society, 2007, 129, 14580-14581.	6.6	115
139	Tensile Mechanics of Electrospun Multiwalled Nanotube/Poly(methyl methacrylate) Nanofibers. Advanced Materials, 2007, 19, 1228-1233.	11.1	115
140	The winding road for carbon nanotubes in nanomedicine. Materials Today, 2015, 18, 12-19.	8.3	115
141	Synthesis and Anti-HIV properties of new water-soluble bis-functionalized[60]fullerene derivatives. Bioorganic and Medicinal Chemistry Letters, 2003, 13, 4437-4440.	1.0	114
142	Hemolytic Effects of Water-Soluble Fullerene Derivatives. Journal of Medicinal Chemistry, 2004, 47, 6711-6715.	2.9	114
143	Antifungal Activity of Amphotericin B Conjugated to Carbon Nanotubes. ACS Nano, 2011, 5, 199-208.	7.3	114
144	Selective organic functionalization of graphene bulk or graphene edges. Chemical Communications, 2011, 47, 9330.	2.2	114

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145	Modification of Nanocrystalline WO₃ with a Dicationic Perylene Bisimide: Applications to Molecular Level Solar Water Splitting. Journal of the American Chemical Society, 2015, 137, 4630-4633.	6.6	114
146	Fullerene Materials. Topics in Current Chemistry, 1999, , 173-187.	4.0	113
147	Fullerene-based amino acids and peptides. Journal of Peptide Science, 2001, 7, 208-219.	0.8	113
148	A detailed Raman study on thin single-wall carbon nanotubes prepared by the HiPCO process. European Physical Journal B, 2002, 28, 223-230.	0.6	113
149	Carbon Dots as Nano-Organocatalysts for Synthetic Applications. ACS Catalysis, 2020, 10, 8090-8105.	5.5	111
150	Design and Synthesis of Novel [60]Fullerene Derivatives as Potential HIV Aspartic Protease Inhibitors. Organic Letters, 2000, 2, 3955-3958.	2.4	110
151	Modulating Charge-Transfer Interactions in Topologically Different Porphyrinâ€“C60 Dyads. Chemistry - A European Journal, 2003, 9, 4968-4979.	1.7	110
152	Cellular uptake mechanisms of functionalised multi-walled carbon nanotubes by 3D electron tomography imaging. Nanoscale, 2011, 3, 2627.	2.8	110
153	Degree of Chemical Functionalization of Carbon Nanotubes Determines Tissue Distribution and Excretion Profile. Angewandte Chemie - International Edition, 2012, 51, 6389-6393.	7.2	109
154	Hydrogen Bond-Assembled Fullerene Molecular Shuttle. Organic Letters, 2003, 5, 689-691.	2.4	108
155	Supramolecular Assemblies of Different Carbon Nanotubes for Photoconversion Processes. Advanced Materials, 2006, 18, 2264-2269.	11.1	108
156	Multiwalled Carbon Nanotubes Drive the Activity of Metal@oxide Coreâ€“Shell Catalysts in Modular Nanocomposites. Journal of the American Chemical Society, 2012, 134, 11760-11766.	6.6	107
157	Single-Walled Carbon Nanotubeâ€“Polyamidoamine Dendrimer Hybrids for Heterogeneous Catalysis. ACS Nano, 2016, 10, 4627-4636.	7.3	107
158	Carbon nanotubes and catalysis: the many facets of a successful marriage. Catalysis Science and Technology, 2015, 5, 3859-3875.	2.1	106
159	Engineering of Supramolecular H-Bonded Nanopolygons via Self-Assembly of Programmed Molecular Modules. Journal of the American Chemical Society, 2009, 131, 509-520.	6.6	105
160	Nanomaterials for (Nano)medicine. ACS Medicinal Chemistry Letters, 2013, 4, 147-149.	1.3	105
161	Carbon Nanotubes Instruct Physiological Growth and Functionally Mature Syncytia: Nongenetic Engineering of Cardiac Myocytes. ACS Nano, 2013, 7, 5746-5756.	7.3	105
162	Functionalized Carbon Nanotubes for Probing and Modulating Molecular Functions. Chemistry and Biology, 2010, 17, 107-115.	6.2	104

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163	In vivo degradation of functionalized carbon nanotubes after stereotactic administration in the brain cortex. Nanomedicine, 2012, 7, 1485-1494.	1.7	104
164	Carbon Nanotubes: Artificial Nanomaterials to Engineer Single Neurons and Neuronal Networks. ACS Chemical Neuroscience, 2012, 3, 611-618.	1.7	103
165	Electrical Rectification in a Langmuirâ^'Blodgett Monolayer of Dimethyanilinoazafullerene Sandwiched between Gold Electrodes. Journal of Physical Chemistry B, 2003, 107, 1021-1027.	1.2	102
166	Molecular Recognition by a Silica-Bound Fullerene Derivative. Journal of the American Chemical Society, 1997, 119, 7550-7554.	6.6	101
167	Dispersable Carbon Nanotube/Gold Nanohybrids: Evidence for Strong Electronic Interactions. Small, 2005, 1, 527-530.	5.2	100
168	Photoinduced electron transfer and long lived charge separation in a donor-bridge-acceptor supramolecular â€˜diadâ€™ consisting of ruthenium(II) tris(bipyridine) functionalized C60. Chemical Physics Letters, 1995, 247, 510-514.	1.2	99
169	Singling out the Electrochemistry of Individual Single-Walled Carbon Nanotubes in Solution. Journal of the American Chemical Society, 2008, 130, 7393-7399.	6.6	99
170	Rationally Designed Carbon Nanodots towards Pure Whiteâ€Light Emission. Angewandte Chemie - International Edition, 2017, 56, 4170-4173.	7.2	99
171	Co-axial heterostructures integrating palladium/titanium dioxide with carbon nanotubes for efficient electrocatalytic hydrogen evolution. Nature Communications, 2016, 7, 13549.	5.8	98
172	Synthesis of N-acylated fulleropyrrolidines: New materials for the preparation of Langmuir-Blodgett films containing fullerenes. Tetrahedron Letters, 1994, 35, 2985-2988.	0.7	96
173	Highly Sensitive Electrochemiluminescent Nanobiosensor for the Detection of Palytoxin. ACS Nano, 2012, 6, 7989-7997.	7.3	96
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