

Maurizio Prato

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733
papers

65,504
citations

115
h-index

231
g-index

864
ext. papers

70,852
ext. citations

9.3
avg, IF

7.92
L-index

#	Paper	IF	Citations
733	Chemistry of carbon nanotubes. <i>Chemical Reviews</i> , 2006 , 106, 1105-36	68.1	3474
732	Science and technology roadmap for graphene, related two-dimensional crystals, and hybrid systems. <i>Nanoscale</i> , 2015 , 7, 4598-810	7.7	2015
731	Applications of carbon nanotubes in drug delivery. <i>Current Opinion in Chemical Biology</i> , 2005 , 9, 674-9	9.7	1481
730	Addition of azomethine ylides to C60: synthesis, characterization, and functionalization of fullerene pyrrolidines. <i>Journal of the American Chemical Society</i> , 1993 , 115, 9798-9799	16.4	1124
729	Organic functionalization of carbon nanotubes. <i>Journal of the American Chemical Society</i> , 2002 , 124, 760-766	16.4	1062
728	Excited-state properties of C(60) Fullerene derivatives. <i>Accounts of Chemical Research</i> , 2000 , 33, 695-703	24.3	953
727	Cellular uptake of functionalized carbon nanotubes is independent of functional group and cell type. <i>Nature Nanotechnology</i> , 2007 , 2, 108-13	28.7	933
726	Tissue biodistribution and blood clearance rates of intravenously administered carbon nanotube radiotracers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 3357-62	11.5	903
725	Functionalized carbon nanotubes in drug design and discovery. <i>Accounts of Chemical Research</i> , 2008 , 41, 60-8	24.3	891
724	Functionalized carbon nanotubes for plasmid DNA gene delivery. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 5242-6	16.4	871
723	Translocation of bioactive peptides across cell membranes by carbon nanotubes. <i>Chemical Communications</i> , 2004 , 16-7	5.8	871
722	Biomedical applications of functionalised carbon nanotubes. <i>Chemical Communications</i> , 2005 , 571-7	5.8	863
721	Molecular design of strong single-wall carbon nanotube/polyelectrolyte multilayer composites. <i>Nature Materials</i> , 2002 , 1, 190-4	27	858
720	[60]Fullerene chemistry for materials science applications. <i>Journal of Materials Chemistry</i> , 1997 , 7, 1097-1109	7.21	721
719	Fulleropyrrolidines: A Family of Full-Fledged Fullerene Derivatives. <i>Accounts of Chemical Research</i> , 1998 , 31, 519-526	24.3	721
718	Diverse Applications of Nanomedicine. <i>ACS Nano</i> , 2017 , 11, 2313-2381	16.7	714
717	Fullerene derivatives: an attractive tool for biological applications. <i>European Journal of Medicinal Chemistry</i> , 2003 , 38, 913-23	6.8	689

7 ¹⁶	Carbon nanotubes as nanomedicines: from toxicology to pharmacology. <i>Advanced Drug Delivery Reviews</i> , 2006 , 58, 1460-70	18.5	686
7 ¹⁵	Promises, facts and challenges for carbon nanotubes in imaging and therapeutics. <i>Nature Nanotechnology</i> , 2009 , 4, 627-33	28.7	673
7 ¹⁴	Binding and condensation of plasmid DNA onto functionalized carbon nanotubes: toward the construction of nanotube-based gene delivery vectors. <i>Journal of the American Chemical Society</i> , 2005 , 127, 4388-96	16.4	666
7 ¹³	Functionalized carbon nanotubes are non-cytotoxic and preserve the functionality of primary immune cells. <i>Nano Letters</i> , 2006 , 6, 1522-8	11.5	597
7 ¹²	Decorating carbon nanotubes with metal or semiconductor nanoparticles. <i>Journal of Materials Chemistry</i> , 2007 , 17, 2679		574
7 ¹¹	Carbon nanotube substrates boost neuronal electrical signaling. <i>Nano Letters</i> , 2005 , 5, 1107-10	11.5	546
7 ¹⁰	Targeted delivery of amphotericin B to cells by using functionalized carbon nanotubes. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 6358-62	16.4	523
7 ⁰⁹	Soluble carbon nanotubes. <i>Chemistry - A European Journal</i> , 2003 , 9, 4000-8	4.8	502
7 ⁰⁸	Organic functionalisation and characterisation of single-walled carbon nanotubes. <i>Chemical Society Reviews</i> , 2009 , 38, 2214-30	58.5	498
7 ⁰⁷	Nanocomposite Hydrogels: 3D Polymer-Nanoparticle Synergies for On-Demand Drug Delivery. <i>ACS Nano</i> , 2015 , 9, 4686-97	16.7	497
7 ⁰⁶	Synthesis, structural characterization, and immunological properties of carbon nanotubes functionalized with peptides. <i>Journal of the American Chemical Society</i> , 2003 , 125, 6160-4	16.4	447
7 ⁰⁵	Carbon nanotubes in electron donor-acceptor nanocomposites. <i>Accounts of Chemical Research</i> , 2005 , 38, 871-8	24.3	429
7 ⁰⁴	Carbon nanotubes might improve neuronal performance by favouring electrical shortcuts. <i>Nature Nanotechnology</i> , 2009 , 4, 126-33	28.7	428
7 ⁰³	Nanomaterials for Neural Interfaces. <i>Advanced Materials</i> , 2009 , 21, 3970-4004	24	422
7 ⁰²	Promises, facts and challenges for graphene in biomedical applications. <i>Chemical Society Reviews</i> , 2017 , 46, 4400-4416	58.5	415
7 ⁰¹	Functionalized carbon nanotubes as emerging nanovectors for the delivery of therapeutics. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2006 , 1758, 404-12	3.8	415
7 ⁰⁰	Efficient water oxidation at carbon nanotube-polyoxometalate electrocatalytic interfaces. <i>Nature Chemistry</i> , 2010 , 2, 826-31	17.6	405
6 ⁹⁹	Immunization with peptide-functionalized carbon nanotubes enhances virus-specific neutralizing antibody responses. <i>Chemistry and Biology</i> , 2003 , 10, 961-6		404

698	Medicinal chemistry with fullerenes and fullerene derivatives. <i>Chemical Communications</i> , 1999 , 663-669	5.8	385
697	Functionalization of graphene via 1,3-dipolar cycloaddition. <i>ACS Nano</i> , 2010 , 4, 3527-33	16.7	378
696	Double functionalization of carbon nanotubes for multimodal drug delivery. <i>Chemical Communications</i> , 2006 , 1182-4	5.8	317
695	Interactions in single wall carbon nanotubes/pyrene/porphyrin nano hybrids. <i>Journal of the American Chemical Society</i> , 2006 , 128, 11222-31	16.4	300
694	Addition of azides to fullerene C60: synthesis of azafulleroids. <i>Journal of the American Chemical Society</i> , 1993 , 115, 1148-1150	16.4	300
693	Multiwalled carbon nanotube-doxorubicin supramolecular complexes for cancer therapeutics. <i>Chemical Communications</i> , 2008 , 459-61	5.8	295
692	Safety Assessment of Graphene-Based Materials: Focus on Human Health and the Environment. <i>ACS Nano</i> , 2018 , 12, 10582-10620	16.7	292
691	Intramolecular Electron Transfer in Fullerene/Ferrocene Based Donor-Bridge-Acceptor Dyads. <i>Journal of the American Chemical Society</i> , 1997 , 119, 974-980	16.4	290
690	Classification framework for graphene-based materials. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 7714-8	16.4	287
689	Making carbon nanotubes biocompatible and biodegradable. <i>Chemical Communications</i> , 2011 , 47, 10182-5	5.8	282
688	Interfacing neurons with carbon nanotubes: electrical signal transfer and synaptic stimulation in cultured brain circuits. <i>Journal of Neuroscience</i> , 2007 , 27, 6931-6	6.6	282
687	Facile decoration of functionalized single-wall carbon nanotubes with phthalocyanines via "click chemistry". <i>Journal of the American Chemical Society</i> , 2008 , 130, 11503-9	16.4	269
686	Biomedical Uses for 2D Materials Beyond Graphene: Current Advances and Challenges Ahead. <i>Advanced Materials</i> , 2016 , 28, 6052-74	24	266
685	Few-layer graphenes from ball-milling of graphite with melamine. <i>Chemical Communications</i> , 2011 , 47, 10936-8	5.8	265
684	Amino acid functionalisation of water soluble carbon nanotubes. <i>Chemical Communications</i> , 2002 , 3050-5	5.8	265
683	Cationic carbon nanotubes bind to CpG oligodeoxynucleotides and enhance their immunostimulatory properties. <i>Journal of the American Chemical Society</i> , 2005 , 127, 58-9	16.4	249
682	Functionalization of carbon nanotubes via 1,3-dipolar cycloadditions. <i>Journal of Materials Chemistry</i> , 2004 , 14, 437		246
681	Length-dependent retention of carbon nanotubes in the pleural space of mice initiates sustained inflammation and progressive fibrosis on the parietal pleura. <i>American Journal of Pathology</i> , 2011 , 178, 2587-600	5.8	242

- 680 Dendrimer-functionalized single-wall carbon nanotubes: synthesis, characterization, and photoinduced electron transfer. *Journal of the American Chemical Society*, **2006**, 128, 12544-52 16.4 241
- 679 Carbon nanotubes and microwaves: interactions, responses, and applications. *ACS Nano*, **2009**, 3, 3819-24 16.7 240
- 678 Synthesis and electrochemical properties of substituted fulleropyrrolidines. *Tetrahedron*, **1996**, 52, 5221-5234 16.4 235
- 677 Integrating single-wall carbon nanotubes into donor-acceptor nanohybrids. *Angewandte Chemie - International Edition*, **2004**, 43, 5526-30 16.4 233
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- 668 Synthesis, Separation, and Characterization of Small and Highly Fluorescent Nitrogen-Doped Carbon NanoDots. *Angewandte Chemie - International Edition*, **2016**, 55, 2107-12 16.4 203
- 667 Manipulating single-wall carbon nanotubes by chemical doping and charge transfer with perylene dyes. *Nature Chemistry*, **2009**, 1, 243-9 17.6 201
- 666 Translocation mechanisms of chemically functionalised carbon nanotubes across plasma membranes. *Biomaterials*, **2012**, 33, 3334-43 15.6 199
- 665 Organic functionalization of graphene in dispersions. *Accounts of Chemical Research*, **2013**, 46, 138-48 24.3 198
- 664 Multipurpose organically modified carbon nanotubes: from functionalization to nanotube composites. *Journal of the American Chemical Society*, **2008**, 130, 8733-40 16.4 197
- 663 Novel Photoactive Single-Walled Carbon Nanotube-Porphyrin Polymer Wraps: Efficient and Long-Lived Intracomplex Charge Separation. *Advanced Materials*, **2005**, 17, 871-875 24 196

- 662 Purification of HiPCO carbon nanotubes via organic functionalization. *Journal of the American Chemical Society*, **2002**, 124, 14318-9 16.4 190
- 661 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, 10952-7 11.5 189
- 660 Dynamic Imaging of Functionalized Multi-Walled Carbon Nanotube Systemic Circulation and Urinary Excretion. *Advanced Materials*, **2008**, 20, 225-230 24 181
- 659 Production and processing of graphene and related materials. *2D Materials*, **2020**, 7, 022001 5.9 179
- 658 The Covalent Functionalization of Graphene on Substrates. *Angewandte Chemie - International Edition*, **2015**, 54, 10734-50 16.4 179
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- 656 Carbon nanotubes promote growth and spontaneous electrical activity in cultured cardiac myocytes. *Nano Letters*, **2012**, 12, 1831-8 11.5 175
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- 653 Functional single-wall carbon nanotube nanohybrids--associating SWNTs with water-soluble enzyme model systems. *Journal of the American Chemical Society*, **2005**, 127, 9830-8 16.4 172
- 652 Endowing carbon nanotubes with biological and biomedical properties by chemical modifications. *Advanced Drug Delivery Reviews*, **2013**, 65, 1899-920 18.5 169
- 651 Ordering fullerene materials at nanometer dimensions. *Accounts of Chemical Research*, **2005**, 38, 38-43 24.3 169
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- 647 Synthesis, characterization, and photoinduced electron transfer in functionalized single wall carbon nanohorns. *Journal of the American Chemical Society*, **2007**, 129, 3938-45 16.4 151
- 646 Easy Access to Water-Soluble Fullerene Derivatives via 1,3-Dipolar Cycloadditions of Azomethine Ylides to C(60). *Journal of Organic Chemistry*, **1996**, 61, 9070-9072 4.2 149
- 645 Amine-Rich Nitrogen-Doped Carbon Nanodots as a Platform for Self-Enhancing Electrochemiluminescence. *Angewandte Chemie - International Edition*, **2017**, 56, 4757-4761 16.4 145

644	Microwave-induced multiple functionalization of carbon nanotubes. <i>Journal of the American Chemical Society</i> , 2008 , 130, 8094-100	16.4	144
643	The Rise of Hydrogen Peroxide as the Main Product by Metal-Free Catalysis in Oxygen Reductions. <i>Advanced Materials</i> , 2019 , 31, e1802920	24	142
642	Parallel (face-to-face) versus perpendicular (edge-to-face) alignment of electron donors and acceptors in fullerene porphyrin dyads: the importance of orientation in electron transfer. <i>Journal of the American Chemical Society</i> , 2001 , 123, 9166-7	16.4	142
641	Asbestos-like pathogenicity of long carbon nanotubes alleviated by chemical functionalization. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 2274-8	16.4	137
640	Nanoscale organization of a phthalocyanine-fullerene system: remarkable stabilization of charges in photoactive 1-D nanotubules. <i>Journal of the American Chemical Society</i> , 2005 , 127, 5811-3	16.4	137
639	[3 + 2] and [4 + 2] Cycloadditions of fullerene C ₆₀ . <i>Journal of the American Chemical Society</i> , 1993 , 115, 1594-1595	16.4	136
638	Ring Expansion of the Fullerene Core by Highly Regioselective Formation of Diazafulleroids. <i>Angewandte Chemie International Edition in English</i> , 1995 , 34, 1343-1345		133
637	Materials chemistry of fullerene C ₆₀ derivatives. <i>Journal of Materials Chemistry</i> , 2011 , 21, 1305-1318		132
636	Carbon nanotube scaffolds tune synaptic strength in cultured neural circuits: novel frontiers in nanomaterial-tissue interactions. <i>Journal of Neuroscience</i> , 2011 , 31, 12945-53	6.6	132
635	Arachidonic acid released by phospholipase A(2) activation triggers Ca(2+)-dependent apoptosis through the mitochondrial pathway. <i>Journal of Biological Chemistry</i> , 2004 , 279, 25219-25	5.4	132
634	Tissue histology and physiology following intravenous administration of different types of functionalized multiwalled carbon nanotubes. <i>Nanomedicine</i> , 2008 , 3, 149-61	5.6	131
633	Energetic preference in 5,6 and 6,6 ring junction adducts of C ₆₀ : fulleroids and methanofullerenes. <i>Journal of the American Chemical Society</i> , 1993 , 115, 8479-8480	16.4	131
632	Opportunities and challenges of carbon-based nanomaterials for cancer therapy. <i>Expert Opinion on Drug Delivery</i> , 2008 , 5, 331-42	8	130
631	Phthalocyanine-pyrene conjugates: a powerful approach toward carbon nanotube solar cells. <i>Journal of the American Chemical Society</i> , 2010 , 132, 16202-11	16.4	125
630	Electronically interacting single wall carbon nanotube-porphyrin nanohybrids. <i>Journal of Materials Chemistry</i> , 2006 , 16, 62-65		124
629	Novel versatile fullerene synthons. <i>Journal of Organic Chemistry</i> , 2001 , 66, 4915-20	4.2	122
628	Reversible zinc phthalocyanine fullerene ensembles. <i>Chemical Communications</i> , 2002 , 2774-5	5.8	122
627	Combining single wall carbon nanotubes and photoactive polymers for photoconversion. <i>Journal of the American Chemical Society</i> , 2005 , 127, 10051-7	16.4	121

- 626 Efficient charge separation in porphyrin-fullerene-ligand complexes. *Chemistry - A European Journal*, **2001**, 7, 816-27 4.8 121
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- 623 Anti-HIV properties of cationic fullerene derivatives. *Bioorganic and Medicinal Chemistry Letters*, **2005**, 15, 3615-8 2.9 117
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- 620 Enhanced anticancer activity of multi-walled carbon nanotube-methotrexate conjugates using cleavable linkers. *Chemical Communications*, **2010**, 46, 1494-6 5.8 115
- 619 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 16.4 115
- 618 Isolation and characterization of all eight bisadducts of fulleropyrrolidine derivatives. *Journal of Organic Chemistry*, **2001**, 66, 2802-8 4.2 115
- 617 Synthesis, Chiroptical Properties, and Configurational Assignment of Fulleroproline Derivatives and Peptides. *Journal of the American Chemical Society*, **1996**, 118, 4072-4080 16.4 115
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- 615 Spinal cord explants use carbon nanotube interfaces to enhance neurite outgrowth and to fortify synaptic inputs. *ACS Nano*, **2012**, 6, 2041-55 16.7 112
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- 610 Selective organic functionalization of graphene bulk or graphene edges. *Chemical Communications*, **2011**, 47, 9330-2 5.8 108
- 609 Supramolecular Assemblies of Different Carbon Nanotubes for Photoconversion Processes. *Advanced Materials*, **2006**, 18, 2264-2269 24 107

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606	From 2D to 3D: novel nanostructured scaffolds to investigate signalling in reconstructed neuronal networks. <i>Scientific Reports</i> , 2015 , 5, 9562	4.9	105
605	Nitrogen-doped carbon nanodots for bioimaging and delivery of paclitaxel. <i>Journal of Materials Chemistry B</i> , 2018 , 6, 5540-5548	7.3	105
604	Fullerene-based amino acids and peptides. <i>Journal of Peptide Science</i> , 2001 , 7, 208-19	2.1	105
603	Design principles of chiral carbon nanodots help convey chirality from molecular to nanoscale level. <i>Nature Communications</i> , 2018 , 9, 3442	17.4	104
602	Hemolytic effects of water-soluble fullerene derivatives. <i>Journal of Medicinal Chemistry</i> , 2004 , 47, 6711-5.3	5.3	104
601	Fullerene Materials. <i>Topics in Current Chemistry</i> , 1999 , 173-187		104
600	Degree of chemical functionalization of carbon nanotubes determines tissue distribution and excretion profile. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 6389-93	16.4	103
599	Reversible microwave-assisted cycloaddition of aziridines to carbon nanotubes. <i>Journal of the American Chemical Society</i> , 2007 , 129, 14580-1	16.4	103
598	Engineering of supramolecular H-bonded nanopolygons via self-assembly of programmed molecular modules. <i>Journal of the American Chemical Society</i> , 2009 , 131, 509-20	16.4	102
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595	A detailed Raman study on thin single-wall carbon nanotubes prepared by the HiPCO process. <i>European Physical Journal B</i> , 2002 , 28, 223-230	1.2	101
594	Graphene Oxide Nanosheets Reshape Synaptic Function in Cultured Brain Networks. <i>ACS Nano</i> , 2016 , 10, 4459-71	16.7	101
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592	Cellular uptake mechanisms of functionalised multi-walled carbon nanotubes by 3D electron tomography imaging. <i>Nanoscale</i> , 2011 , 3, 2627-35	7.7	98
591	Design and synthesis of novel [60]fullerene derivatives as potential HIV aspartic protease inhibitors. <i>Organic Letters</i> , 2000 , 2, 3955-8	6.2	98

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576	Microscopic and spectroscopic characterization of paintbrush-like single-walled carbon nanotubes. <i>Nano Letters</i> , 2006 , 6, 1408-14	11.5	89
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571	Separation of metallic and semiconducting single-walled carbon nanotubes via covalent functionalization. <i>Small</i> , 2007 , 3, 1672-6	11	86
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