Andreas Hirsch

List of Publications by Citations

665 papers	34,797 citations	89 h-index	162 g-index
793 ext. papers	37,329 ext. citations	7.6 avg, IF	7.6 L-index

#	Paper	IF	Citations
665	Functionalization of single-walled carbon nanotubes. *Angewandte Chemie - International Edition*, **2002**, 41, 1853-9	16.4	1735
664	Organic functionalization of carbon nanotubes. *Journal of the American Chemical Society*, **2002**, 124, 760-1	16.4	1062
663	Molecular design of strong single-wall carbon nanotube/polyelectrolyte multilayer composites. *Nature Materials*, **2002**, 1, 190-4	27	858
662	Liquid exfoliation of solvent-stabilized few-layer black phosphorus for applications beyond electronics. *Nature Communications*, **2015**, 6, 8563	17.4	764
661	The era of carbon allotropes. *Nature Materials*, **2010**, 9, 868-71	27	735
660	Chemistry with graphene and graphene oxide-challenges for synthetic chemists. *Angewandte Chemie - International Edition*, **2014**, 53, 7720-38	16.4	605
659	**1994**,		569
658	Covalent bulk functionalization of graphene. *Nature Chemistry*, **2011**, 3, 279-86	17.6	525
657	Sidewall Functionalization of Carbon Nanotubes. *Angewandte Chemie - International Edition*, **2001**, 40, 4002-4005	16.4	514
656	Functionalization of single-walled carbon nanotubes with (R-)oxycarbonyl nitrenes. *Journal of the American Chemical Society*, **2003**, 125, 8566-80	16.4	475
655	Spherical aromaticity of fullerenes. *Chemical Reviews*, **2001**, 101, 1153-83	68.1	422
654	A generic interface to reduce the efficiency-stability-cost gap of perovskite solar cells. *Science*, **2017**, 358, 1192-1197	33.3	418
653	Wet chemical synthesis of graphene. *Advanced Materials*, **2013**, 25, 3583-7	24	392
652	Visualization of defect densities in reduced graphene oxide. *Carbon*, **2012**, 50, 3666-3673	10.4	390
651	Fullerene Chemistry in Three Dimensions: Isolation of Seven Regioisomeric Bisadducts and Chiral Trisadducts of C60 and Di(ethoxycarbonyl)methylene. *Angewandte Chemie International Edition in English*, **1994**, 33, 437-438		378
650	Functionalization of Carbon Nanotubes. *Topics in Current Chemistry*, **2005**, 193-237		359
649	Spherical Aromaticity in I Symmetrical Fullerenes: The 2(N+1) Rule. *Angewandte Chemie - International Edition*, **2000**, 39, 3915-3917	16.4	342

648	Few-Layer Antimonene by Liquid-Phase Exfoliation. *Angewandte Chemie - International Edition*, **2016**, 55, 14345-14349	16.4	299
647	Chemical functionalization and characterization of graphene-based materials. *Chemical Society Reviews*, **2017**, 46, 4464-4500	58.5	285
646	Lattice structure of the fullerene ferromagnet TDAE□C60. *Nature*, **1992**, 355, 331-332	50.4	282
645	Regiochemistry of Multiple Additions to the Fullerene Core: Synthesis of a Th-Symmetric Hexakis adduct of C60 with Bis(ethoxycarbonyl)methylene. *Journal of the American Chemical Society*, **1994**, 116, 9385-9386	16.4	278
644	Addition Reactions of Buckminsterfullerene (C60). *Synthesis*, **1995**, 1995, 895-913	2.9	264
643	Globe-trotting Hydrogens on the Surface of the Fullerene Compound C60H6(N(CH2CH2)2O)6. *Angewandte Chemie International Edition in English*, **1991**, 30, 1309-1310		236
642	Basal-Plane Functionalization of Chemically Exfoliated Molybdenum Disulfide by Diazonium Salts. *ACS Nano*, **2015**, 9, 6018-30	16.7	232
641	Efficient cyclopropanation of C60 starting from malonates. *Journal of the Chemical Society Perkin Transactions 1*, **1997**, 1595-1596		222
640	A highly water-soluble dendro[60]fullerene. *Tetrahedron Letters*, **1998**, 39, 2731-2734	2	214
639	End-cap stabilized oligoynes: model compounds for the linear sp carbon allotrope carbyne. *Chemistry - A European Journal*, **2002**, 8, 408-32	4.8	214
638	**2004**,		209
637	Principles of Fullerene Reactivity. *Topics in Current Chemistry*, **1999**, 1-65		202
636	Manipulating single-wall carbon nanotubes by chemical doping and charge transfer with perylene dyes. *Nature Chemistry*, **2009**, 1, 243-9	17.6	201
635	Heterofullerenes. *Chemical Reviews*, **2006**, 106, 5191-207	68.1	196
634	Formation and Decomposition of CO2 Intercalated Graphene Oxide. *Chemistry of Materials*, **2012**, 24, 1276-1282	9.6	191
633	Soluble Graphene: Generation of Aqueous Graphene Solutions Aided by a Perylenebisimide-Based Bolaamphiphile. *Advanced Materials*, **2009**, 21, 4265-4269	24	189
632	Wet chemical functionalization of graphene. *Accounts of Chemical Research*, **2013**, 46, 87-96	24.3	188
631	Synthesis of Isomerically Pure Organodihydrofullerenes. *Chemische Berichte*, **1993**, 126, 1061-1067		188

630	Fundamental Insights into the Degradation and Stabilization of Thin Layer Black Phosphorus. *Journal of the American Chemical Society*, **2017**, 139, 10432-10440	16.4	181
629	Production and processing of graphene and related materials. *2D Materials*, **2020**, 7, 022001	5.9	179
628	The Chemistry of the Fullerenes: An Overview. *Angewandte Chemie International Edition in English*, **1993**, 32, 1138-1141		179
627	Doping of single-walled carbon nanotube bundles by Brønsted acids. *Physical Chemistry Chemical Physics*, **2003**, 5, 5472-5476	3.6	175
626	Noncovalent Functionalization of Black Phosphorus. *Angewandte Chemie - International Edition*, **2016**, 55, 14557-14562	16.4	172
625	Reversible Template-Directed Activation of Equatorial Double Bonds of the Fullerene Framework: Regioselective Direct Synthesis, Crystal Structure, and Aromatic Properties of Th-C66(COOEt)12. *Angewandte Chemie International Edition in English*, **1995**, 34, 1607-1609		171
624	Sulfur species in graphene oxide. *Chemistry - A European Journal*, **2013**, 19, 9490-6	4.8	163
623	The potential of molecular self-assembled monolayers in organic electronic devices. *Advanced Materials*, **2011**, 23, 2689-95	24	162
622	Water-soluble malonic acid derivatives of C60 with a defined three-dimensional structure. *Journal of the Chemical Society Chemical Communications*, **1994**, 1727		161
621	Titration of C60: A Method for the Synthesis of Organofullerenes. *Angewandte Chemie International Edition in English*, **1992**, 31, 766-768		159
620	Reactivity of the convex and concave surfaces of single-walled carbon nanotubes (SWCNTs) towards addition reactions: dependence on the carbon-atom pyramidalization. *ChemPhysChem*, **2003**, 4, 93-7	3.2	158
619	Post-Graphene 2D Chemistry: The Emerging Field of Molybdenum Disulfide and Black Phosphorus Functionalization. *Angewandte Chemie - International Edition*, **2018**, 57, 4338-4354	16.4	156
618	Spherical Aromaticity of Inorganic Cage Molecules. *Angewandte Chemie - International Edition*, **2001**, 40, 2834-2838	16.4	152
617	Polymer-bound C60. *Journal of the American Chemical Society*, **1993**, 115, 3850-3851	16.4	152
616	The first account of a structurally persistent micelle. *Angewandte Chemie - International Edition*, **2004**, 43, 2959-62	16.4	148
615	Regiochemistry of Twofold Additions to [6,6] Bonds in C60: Influence of the Addend-Independent Cage Distortion in 1,2-Monoadducts. *Chemistry - A European Journal*, **1996**, 2, 1537-1547	4.8	145
614	Nucleophilic-alkylation-reoxidation: a functionalization sequence for single-wall carbon nanotubes. *Journal of the American Chemical Society*, **2006**, 128, 6683-9	16.4	142
613	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. *Journal of the American Chemical Society*, **2001**, 123, 9166-7	16.4	142

612	Funktionalisierung von einwandigen Kohlenstoffnanoröhren. *Angewandte Chemie*, **2002**, 114, 1933	3.6	136
611	A new route to nitrogen heterofullerenes and the first synthesis of (C69N)2. *Chemical Communications*, **1996**, 1421	5.8	135
610	Ring Expansion of the Fullerene Core by Highly Regioselective Formation of Diazafulleroids. *Angewandte Chemie International Edition in English*, **1995**, 34, 1343-1345		133
609	Buckminsterfullerene C60: a chemical Faraday cage for atomic nitrogen. *Chemical Physics Letters*, **1997**, 279, 259-263	2.5	131
608	High population of individualized SWCNTs through the adsorption of water-soluble perylenes. *Journal of the American Chemical Society*, **2009**, 131, 2172-84	16.4	130
607	Globular Amphiphiles: Membrane-Forming Hexaadducts of C(60) This work was been supported by the Deutsche Forschungsgemeinschaft and by the Fonds der Chemischen Industrie. We thank Dr. K. Fischer and Prof. Dr. K. Schmidt from the Institute of Physical Chemistry at the University of Mainz for performing the light scattering measurements. *Angewandte Chemie - International Edition*, **2000**	16.4	130
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605	A green fullerene: synthesis and electrochemistry of a Diels–Alder adduct of [60]fullerene with a phthalocyanine. *Journal of the Chemical Society Chemical Communications*, **1995**, 103-104		128
604	C60 Hexakisadducts with an Octahedral Addition Pattern – A New Structure Motif in Organic Chemistry. *European Journal of Organic Chemistry*, **2001**, 2001, 829-848	3.2	120
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602	Scanning-Raman-microscopy for the statistical analysis of covalently functionalized graphene. *ACS Nano*, **2013**, 7, 5472-82	16.7	118
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600	Reaction of [60]fullerene with morpholine and piperidine: preferred 1,4-additions and fullerene dimer formation. *Journal of the Chemical Society Chemical Communications*, **1995**, 2023		117
599	Stabilization of Atomic Nitrogen Inside C60. *Angewandte Chemie International Edition in English*, **1997**, 36, 2835-2838		115
598	Nitrogen Heterofullerenes. *Accounts of Chemical Research*, **1999**, 32, 795-804	24.3	115
597	Functionalization of carbon nanotubes enables non-covalent binding and intracellular delivery of small interfering RNA for efficient knock-down of genes. *Biochemical and Biophysical Research Communications*, **2008**, 369, 595-602	3.4	114
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595	Concept of a molecular charge storage dielectric layer for organic thin-film memory transistors. *Advanced Materials*, **2010**, 22, 2525-8	24	109

594	Non-covalent chemistry of graphene: electronic communication with dendronized perylene bisimides. *Advanced Materials*, **2010**, 22, 5483-7	24	109
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592	Increasing the Fill Factor of Inverted P3HT:PCBM Solar Cells Through Surface Modification of Al-Doped ZnO via Phosphonic Acid-Anchored C60 SAMs. *Advanced Energy Materials*, **2012**, 2, 532-535	21.8	108
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590	Graphene oxide: efficiency of reducing agents. *Chemical Communications*, **2013**, 49, 7391-3	5.8	105
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587	Modulating charge-transfer interactions in topologically different porphyrin-C60 dyads. *Chemistry - A European Journal*, **2003**, 9, 4968-79	4.8	102
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584	C59N+ and C69N+: Isoelectronic Heteroanalogues of C60 and C70. *Angewandte Chemie International Edition in English*, **1995**, 34, 2257-2259		99
583	On the way to graphane-pronounced fluorescence of polyhydrogenated graphene. *Angewandte Chemie - International Edition*, **2013**, 52, 754-7	16.4	97
582	Low-voltage p- and n-type organic self-assembled monolayer field effect transistors. *Nano Letters*, **2011**, 11, 156-9	11.5	97
581	Side-wall opening of single-walled carbon nanotubes (SWCNTs) by chemical modification: a critical theoretical study. *Angewandte Chemie - International Edition*, **2004**, 43, 1552-4	16.4	92
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575	Theoretical studies on the smallest fullerene: from monomer to oligomers and solid States. *Chemistry - A European Journal*, **2004**, 10, 963-70	4.8	87
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