

Andreas Hirsch

List of Publications by Year in descending order

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669
papers

40,622
citations

3333

91
h-index

4545

171
g-index

793
all docs

793
docs citations

793
times ranked

30923
citing authors

#	ARTICLE	IF	CITATIONS
1	Functionalization of Single-Walled Carbon Nanotubes. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 1853.	7.2	1,926
2	Organic Functionalization of Carbon Nanotubes. <i>Journal of the American Chemical Society</i> , 2002, 124, 760-761.	6.6	1,193
3	Molecular design of strong single-wall carbon nanotube/polyelectrolyte multilayer composites. <i>Nature Materials</i> , 2002, 1, 190-194.	13.3	949
4	The era of carbon allotropes. <i>Nature Materials</i> , 2010, 9, 868-871.	13.3	940
5	Liquid exfoliation of solvent-stabilized few-layer black phosphorus for applications beyond electronics. <i>Nature Communications</i> , 2015, 6, 8563.	5.8	921
6	Chemistry with Graphene and Graphene Oxide – Challenges for Synthetic Chemists. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 7720-7738.	7.2	741
7	Covalent bulk functionalization of graphene. <i>Nature Chemistry</i> , 2011, 3, 279-286.	6.6	596
8	Sidewall Functionalization of Carbon Nanotubes This work was supported by the European Union under the 5th Framework Research Training Network 1999, HPRNT 1999-00011 FUNCARS.. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 4002.	7.2	582
9	A generic interface to reduce the efficiency-stability-cost gap of perovskite solar cells. <i>Science</i> , 2017, 358, 1192-1197.	6.0	554
10	Functionalization of Single-Walled Carbon Nanotubes with (R)-Oxycarbonyl Nitrenes. <i>Journal of the American Chemical Society</i> , 2003, 125, 8566-8580.	6.6	520
11	Spherical Aromaticity of Fullerenes. <i>Chemical Reviews</i> , 2001, 101, 1153-1184.	23.0	485
12	Visualization of defect densities in reduced graphene oxide. <i>Carbon</i> , 2012, 50, 3666-3673.	5.4	476
13	Fullerene Chemistry in Three Dimensions: Isolation of Seven Regioisomeric Bisadducts and Chiral Trisadducts of C ₆₀ and Di(ethoxycarbonyl)methylene. <i>Angewandte Chemie International Edition in English</i> , 1994, 33, 437-438.	4.4	455
14	Wet Chemical Synthesis of Graphene. <i>Advanced Materials</i> , 2013, 25, 3583-3587.	11.1	453
15	Functionalization of Carbon Nanotubes. <i>Topics in Current Chemistry</i> , 0, , 193-237.	4.0	410
16	Spherical Aromaticity in Symmetrical Fullerenes: The 2(N+1)2 Rule. <i>Angewandte Chemie - International Edition</i> , 2000, 39, 3915-3917.	7.2	382
17	Chemical functionalization and characterization of graphene-based materials. <i>Chemical Society Reviews</i> , 2017, 46, 4464-4500.	18.7	356
18	Few-Layer Antimonene by Liquid-Phase Exfoliation. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 14345-14349.	7.2	346

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19	Regiochemistry of Multiple Additions to the Fullerene Core: Synthesis of a Th-Symmetric Hexakis adduct of C ₆₀ with Bis(ethoxycarbonyl)methylene. <i>Journal of the American Chemical Society</i> , 1994, 116, 9385-9386.	6.6	334
20	Production and processing of graphene and related materials. <i>2D Materials</i> , 2020, 7, 022001.	2.0	333
21	Lattice structure of the fullerene ferromagnet TDAE@C ₆₀ . <i>Nature</i> , 1992, 355, 331-332.	13.7	311
22	Addition Reactions of Buckminsterfullerene (C ₆₀). <i>Synthesis</i> , 1995, 1995, 895-913.	1.2	296
23	Basal-Plane Functionalization of Chemically Exfoliated Molybdenum Disulfide by Diazonium Salts. <i>ACS Nano</i> , 2015, 9, 6018-6030.	7.3	293
24	Globe-trotting Hydrogens on the Surface of the Fullerene Compound C ₆₀ H ₆ (N(CH ₂ CH ₂) ₂ O) ₆ . <i>Angewandte Chemie International Edition in English</i> , 1991, 30, 1309-1310.	4.4	279
25	Efficient cyclopropanation of C ₆₀ starting from malonates. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1997, , 1595-1596.	0.9	261
26	A highly water-soluble dendro[60]fullerene. <i>Tetrahedron Letters</i> , 1998, 39, 2731-2734.	0.7	260
27	Synthesis of Isomerically Pure Organodihydrofullerenes. <i>Chemische Berichte</i> , 1993, 126, 1061-1067.	0.2	236
28	End-Cap Stabilized Oligoynes: Model Compounds for the Linear sp Carbon Allotrope Carbyne. <i>Chemistry - A European Journal</i> , 2002, 8, 408-432.	1.7	236
29	Principles of Fullerene Reactivity. <i>Topics in Current Chemistry</i> , 1999, , 1-65.	4.0	232
30	Fundamental Insights into the Degradation and Stabilization of Thin Layer Black Phosphorus. <i>Journal of the American Chemical Society</i> , 2017, 139, 10432-10440.	6.6	232
31	Formation and Decomposition of CO ₂ Intercalated Graphene Oxide. <i>Chemistry of Materials</i> , 2012, 24, 1276-1282.	3.2	231
32	The Chemistry of the Fullerenes: An Overview. <i>Angewandte Chemie International Edition in English</i> , 1993, 32, 1138-1141.	4.4	227
33	Wet Chemical Functionalization of Graphene. <i>Accounts of Chemical Research</i> , 2013, 46, 87-96.	7.6	221
34	Heterofullerenes. <i>Chemical Reviews</i> , 2006, 106, 5191-5207.	23.0	215
35	Manipulating single-wall carbon nanotubes by chemical doping and charge transfer with perylene dyes. <i>Nature Chemistry</i> , 2009, 1, 243-249.	6.6	215
36	Reversible Template-Directed Activation of Equatorial Double Bonds of the Fullerene Framework: Regioselective Direct Synthesis, Crystal Structure, and Aromatic Properties of Th-C ₆₆ (COOEt) ₁₂ . <i>Angewandte Chemie International Edition in English</i> , 1995, 34, 1607-1609.	4.4	201

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37	Sulfur Species in Graphene Oxide. <i>Chemistry - A European Journal</i> , 2013, 19, 9490-9496.	1.7	199
38	Noncovalent Functionalization of Black Phosphorus. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 14557-14562.	7.2	199
39	Titration of C60: A Method for the Synthesis of Organofullerenes. <i>Angewandte Chemie International Edition in English</i> , 1992, 31, 766-768.	4.4	196
40	Soluble Graphene: Generation of Aqueous Graphene Solutions Aided by a Perylenebisimide-Based Bolaamphiphile. <i>Advanced Materials</i> , 2009, 21, 4265-4269.	11.1	196
41	Post-Graphene 2D Chemistry: The Emerging Field of Molybdenum Disulfide and Black Phosphorus Functionalization. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 4338-4354.	7.2	193
42	Doping of single-walled carbon nanotube bundles by Brønsted acids. <i>Physical Chemistry Chemical Physics</i> , 2003, 5, 5472-5476.	1.3	192
43	Water-soluble malonic acid derivatives of C60 with a defined three-dimensional structure. <i>Journal of the Chemical Society Chemical Communications</i> , 1994, , 1727.	2.0	186
44	Polymer-bound C60. <i>Journal of the American Chemical Society</i> , 1993, 115, 3850-3851.	6.6	179
45	The Potential of Molecular Self-Assembled Monolayers in Organic Electronic Devices. <i>Advanced Materials</i> , 2011, 23, 2689-2695.	11.1	179
46	Reactivity of the Convex and Concave Surfaces of Single-Walled Carbon Nanotubes (SWCNTs) towards Addition Reactions: Dependence on the Carbon-Atom Pyramidalization. <i>ChemPhysChem</i> , 2003, 4, 93-97.	1.0	177
47	Regiochemistry of Twofold Additions to [6,6] Bonds in C ₆₀ : Influence of the Addend-Independent Cage Distortion in 1,2-Monoadducts. <i>Chemistry - A European Journal</i> , 1996, 2, 1537-1547.	1.7	173
48	Spherical Aromaticity of Inorganic Cage Molecules. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 2834-2838.	7.2	169
49	The First Account of a Structurally Persistent Micelle. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 2959-2962.	7.2	162
50	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, 9166-9167.	6.6	157
51	Nucleophilic Alkylation/Reoxidation: A Functionalization Sequence for Single-Wall Carbon Nanotubes. <i>Journal of the American Chemical Society</i> , 2006, 128, 6683-6689.	6.6	156
52	Funktionalisierung von einwandigen Kohlenstoffnanoröhren. <i>Angewandte Chemie</i> , 2002, 114, 1933.	1.6	155
53	Ring Expansion of the Fullerene Core by Highly Regioselective Formation of Diazafulleroids. <i>Angewandte Chemie International Edition in English</i> , 1995, 34, 1343-1345.	4.4	152
54	A new route to nitrogen heterofullerenes and the first synthesis of (C ₆₉ N) ₂ . <i>Chemical Communications</i> , 1996, , 1421.	2.2	152

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55	Globular Amphiphiles: Membrane-Forming Hexaadducts of C ₆₀ . <i>Angewandte Chemie - International Edition</i> , 2000, 39, 1845-1848.	7.2	148
56	Buckminsterfullerene C ₆₀ : a chemical Faraday cage for atomic nitrogen. <i>Chemical Physics Letters</i> , 1997, 279, 259-263.	1.2	146
57	Opening and Closure of the Fullerene Cage in <i>cis</i> -Bisimino Adducts of C ₆₀ : The Influence of the Addition Pattern and the Addend. <i>Chemistry - A European Journal</i> , 1996, 2, 935-943.	1.7	143
58	Scanning-Raman-Microscopy for the Statistical Analysis of Covalently Functionalized Graphene. <i>ACS Nano</i> , 2013, 7, 5472-5482.	7.3	143
59	C ₆₀ Hexakisadducts with an Octahedral Addition Pattern – A New Structure Motif in Organic Chemistry. <i>European Journal of Organic Chemistry</i> , 2001, 2001, 829-848.	1.2	139
60	High Population of Individualized SWCNTs through the Adsorption of Water-Soluble Perylenes. <i>Journal of the American Chemical Society</i> , 2009, 131, 2172-2184.	6.6	137
61	Survey of Chemical Reactivity of C ₆₀ , Electrophile and Dienophile – polarophile Par Excellence. <i>ACS Symposium Series</i> , 1992, , 161-175.	0.5	135
62	Nanotube Surfactant Design: The Versatility of Water-Soluble Perylene Bisimides. <i>Advanced Materials</i> , 2010, 22, 788-802.	11.1	134
63	A green fullerene: synthesis and electrochemistry of a Diels-Alder adduct of [60]fullerene with a phthalocyanine. <i>Journal of the Chemical Society Chemical Communications</i> , 1995, , 103-104.	2.0	132
64	Nitrogen Heterofullerenes. <i>Accounts of Chemical Research</i> , 1999, 32, 795-804.	7.6	132
65	Functionalization of carbon nanotubes enables non-covalent binding and intracellular delivery of small interfering RNA for efficient knock-down of genes. <i>Biochemical and Biophysical Research Communications</i> , 2008, 369, 595-602.	1.0	127
66	Reaction of [60]fullerene with morpholine and piperidine: preferred 1,4-additions and fullerene dimer formation. <i>Journal of the Chemical Society Chemical Communications</i> , 1995, , 2023.	2.0	125
67	Cytotoxicity and photocytotoxicity of a dendritic C ₆₀ mono-adduct and a malonic acid C ₆₀ tris-adduct on Jurkat cells. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2002, 67, 157-162.	1.7	125
68	Stabilization of Atomic Nitrogen Inside C ₆₀ . <i>Angewandte Chemie International Edition in English</i> , 1997, 36, 2835-2838.	4.4	122
69	Non-Covalent Chemistry of Graphene: Electronic Communication with Dendronized Perylene Bisimides. <i>Advanced Materials</i> , 2010, 22, 5483-5487.	11.1	120
70	Graphene oxide: efficiency of reducing agents. <i>Chemical Communications</i> , 2013, 49, 7391.	2.2	118
71	Increasing the Fill Factor of Inverted P3HT:PCBM Solar Cells Through Surface Modification of Al-Doped ZnO via Phosphonic Acid-Anchored C ₆₀ SAMs. <i>Advanced Energy Materials</i> , 2012, 2, 532-535.	10.2	116
72	Graphene oxide: a stable carbon framework for functionalization. <i>Journal of Materials Chemistry A</i> , 2013, 1, 11559.	5.2	114

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73	C59N+ and C69N+: Isoelectronic Heteroanalogues of C60 and C70. <i>Angewandte Chemie International Edition in English</i> , 1995, 34, 2257-2259.	4.4	113
74	Dicyanopolyyenes: A Homologous Series of End-Capped Linear sp Carbon. <i>Chemistry - A European Journal</i> , 1997, 3, 1105-1112.	1.7	113
75	Atomic Nitrogen Encapsulated in Fullerenes: Effects of Cage Variations. <i>Journal of the American Chemical Society</i> , 1999, 121, 2432-2437.	6.6	113
76	Concept of a Molecular Charge Storage Dielectric Layer for Organic Thin-Film Memory Transistors. <i>Advanced Materials</i> , 2010, 22, 2525-2528.	11.1	113
77	Modulating Charge-Transfer Interactions in Topologically Different Porphyrin-C60 Dyads. <i>Chemistry - A European Journal</i> , 2003, 9, 4968-4979.	1.7	110
78	Implementation of a Hamilton-Receptor-Based Hydrogen-Bonding Motif toward a New Electron Donor-Acceptor Prototype: Electron versus Energy Transfer. <i>Journal of the American Chemical Society</i> , 2007, 129, 16057-16071.	6.6	108
79	Low-Voltage p- and n-Type Organic Self-Assembled Monolayer Field Effect Transistors. <i>Nano Letters</i> , 2011, 11, 156-159.	4.5	108
80	On the Way to Graphene-Pronounced Fluorescence of Polyhydrogenated Graphene. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 754-757.	7.2	108
81	Side-Wall Opening of Single-Walled Carbon Nanotubes (SWCNTs) by Chemical Modification: A Critical Theoretical Study. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 1552-1554.	7.2	105
82	Experimental and Theoretical Studies of the Colloidal Stability of Nanoparticles: A General Interpretation Based on Stability Maps. <i>ACS Nano</i> , 2011, 5, 4658-4669.	7.3	102
83	Synthesis of [60]fullerene derivatives with an octahedral addition pattern. <i>Tetrahedron</i> , 1996, 52, 5065-5075.	1.0	101
84	The C ₆₀ Core: A Versatile Tecton for Dendrimer Chemistry. <i>Chemistry - A European Journal</i> , 1997, 3, 561-567.	1.7	99
85	Covalent Sidewall Functionalization of SWNTs by Nucleophilic Addition of Lithium Amides. <i>European Journal of Organic Chemistry</i> , 2008, 2008, 2544-2550.	1.2	95
86	Statistical Raman Microscopy and Atomic Force Microscopy on Heterogeneous Graphene Obtained after Reduction of Graphene Oxide. <i>Journal of Physical Chemistry C</i> , 2014, 118, 7698-7704.	1.5	95
87	Molecular Peapods as Supramolecular Carbon Allotropes. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 2326-2329.	7.2	94
88	Pairing Fullerenes and Porphyrins: Supramolecular Wires That Exhibit Charge Transfer Activity. <i>Journal of the American Chemical Society</i> , 2010, 132, 10786-10795.	6.6	94
89	A Highly Regioselective Approach to Multiple Adducts of C60 Governed by Strain Minimization of Macrocyclic Malonate Addends. <i>Chemistry - A European Journal</i> , 2002, 8, 2261.	1.7	93
90	Switchable Supramolecular Organization of Structurally Defined Micelles Based on an Amphiphilic Fullerene. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 2976-2979.	7.2	93

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91	The Potential of Perylene Bisimide Derivatives for the Solubilization of Carbon Nanotubes and Graphene. <i>Advanced Materials</i> , 2011, 23, 2588-2601.	11.1	92
92	Electrostatic Complexation and Photoinduced Electron Transfer between Zn-Cytochrome <i>c</i> and Polyanionic Fullerene Dendrimers. <i>Chemistry - A European Journal</i> , 2003, 9, 3867-3875.	1.7	91
93	Tuning the Ground-State and Excited-State Interchromophore Interactions in Porphyrin ⁺ Fullerene π -Stacks. <i>Journal of Physical Chemistry B</i> , 2004, 108, 16377-16385.	1.2	91
94	Effect of Polymer Molecular Weight and Solution Parameters on Selective Dispersion of Single-Walled Carbon Nanotubes. <i>ACS Macro Letters</i> , 2012, 1, 815-819.	2.3	91
95	Theoretical Studies on the Smallest Fullerene: from Monomer to Oligomers and Solid States. <i>Chemistry - A European Journal</i> , 2004, 10, 963-970.	1.7	90
96	Fullerene polymers. <i>Advanced Materials</i> , 1993, 5, 859-861.	11.1	89
97	Charge-transfer in a π -stacked fullerene porphyrin dyad: evidence for back electron transfer in the λ -Marcus-inverted TM region. <i>Chemical Communications</i> , 2000, , 373-374.	2.2	89
98	Synthesis and Aggregation Properties of Water ⁺ Soluble Newkome ⁺ Dendronized Perylenetetracarboxydiimides. <i>European Journal of Organic Chemistry</i> , 2007, 2007, 5497-5505.	1.2	89
99	A top-down strategy identifying molecular phase stabilizers to overcome microstructure instabilities in organic solar cells. <i>Energy and Environmental Science</i> , 2019, 12, 1078-1087.	15.6	89
100	The Relationship between Threshold Voltage and Dipolar Character of Self-Assembled Monolayers in Organic Thin-Film Transistors. <i>Journal of the American Chemical Society</i> , 2012, 134, 12648-12652.	6.6	88
101	A macrocyclic [60]fullerene ⁺ porphyrin dyad involving π - π stacking interactions. <i>Chemical Communications</i> , 1998, , 1981-1982.	2.2	87
102	Unzipping Carbon Nanotubes: A Peeling Method for the Formation of Graphene Nanoribbons. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 6594-6596.	7.2	86
103	Dicyanopolynes: Formation of New Rod-Shaped Molecules in a Carbon Plasma. <i>Angewandte Chemie International Edition in English</i> , 1993, 32, 1340-1342.	4.4	85
104	On the Stacking Behavior of Functionalized Single-Wall Carbon Nanotubes. <i>Journal of Physical Chemistry B</i> , 2002, 106, 6374-6380.	1.2	85
105	Noncovalent Functionalization and Charge Transfer in Antimonene. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 14389-14394.	7.2	83
106	The 2(N+1) ² rule for spherical aromaticity: further validation. <i>Journal of Molecular Modeling</i> , 2001, 7, 161-163.	0.8	82
107	A new purification method for single-wall carbon nanotubes (SWNTs). <i>Applied Physics A: Materials Science and Processing</i> , 2000, 70, 599-602.	1.1	81
108	Globular Dendrimers Involving a C60 Core and a Tetraphenyl Porphyrin Function. <i>Chemistry - A European Journal</i> , 1999, 5, 2362-2373.	1.7	80

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109	Synthesis of the C ₅₉ N ⁺ -Carbocation. A Monomeric Azafullerene Isoelectronic to C ₆₀ . <i>Journal of the American Chemical Society</i> , 2003, 125, 4024-4025.	6.6	80
110	Carbon Nanodots: Supramolecular Electron Donor-Acceptor Hybrids Featuring Perylene-diimides. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 8292-8297.	7.2	80
111	A liquid-crystalline hexa-adduct of [60]fullerene. <i>Chemical Communications</i> , 1999, , 2103-2104.	2.2	79
112	Unexpected Change in Charge Transfer Behavior in a Cobalt(II) Porphyrin-Fullerene Conjugate That Stabilizes Radical Ion Pair States. <i>Journal of the American Chemical Society</i> , 2004, 126, 10370-10381.	6.6	77
113	[DBU]C ₆₀ . Spin pairing in a fullerene salt. <i>Chemical Physics Letters</i> , 1994, 220, 138-140.	1.2	76
114	Synthesis, properties and chemistry of Aza[60]fullerene. <i>Carbon</i> , 2000, 38, 1539-1549.	5.4	76
115	Theoretical investigation into structures and magnetic properties of smaller fullerenes and their heteroanalogues. <i>Theoretical Chemistry Accounts</i> , 2001, 106, 352-363.	0.5	76
116	Evidence of Pronounced Electronic Coupling in a Directly Bonded Fullerene-Ferrocene Dyad. <i>ChemPhysChem</i> , 2002, 3, 195-205.	1.0	76
117	Tetrathiafulvalene-Based Nanotweezers-Noncovalent Binding of Carbon Nanotubes in Aqueous Media with Charge Transfer Implications. <i>Journal of the American Chemical Society</i> , 2012, 134, 9183-9192.	6.6	76
118	An optically-active liquid-crystalline hexa-adduct of [60]fullerene which displays supramolecular helical organization. <i>Chemical Communications</i> , 2006, , 4282-4284.	2.2	75
119	Few-Layer Antimonene by Liquid-Phase Exfoliation. <i>Angewandte Chemie</i> , 2016, 128, 14557-14561.	1.6	74
120	Revealing Hidden UV Instabilities in Organic Solar Cells by Correlating Device and Material Stability. <i>Advanced Energy Materials</i> , 2019, 9, 1902124.	10.2	74
121	Preferred functionalization of metallic and small-diameter single walled carbon nanotubes via reductive alkylation. <i>Journal of Materials Chemistry</i> , 2008, 18, 1493.	6.7	72
122	Carbon Nanotube Sidewall Functionalization with Carbonyl Compounds-Modified Birch Conditions vs the Organometallic Reduction Approach. <i>Journal of the American Chemical Society</i> , 2011, 133, 7985-7995.	6.6	72
123	Improving the Charge Transport in Self-Assembled Monolayer Field-Effect Transistors: From Theory to Devices. <i>Journal of the American Chemical Society</i> , 2013, 135, 4893-4900.	6.6	72
124	Direct Covalent Coupling of Porphyrins to Graphene. <i>Journal of the American Chemical Society</i> , 2017, 139, 11760-11765.	6.6	72
125	Die Chemie der Fullerene: ein Aberblick. <i>Angewandte Chemie</i> , 1993, 105, 1189-1192.	1.6	71
126	New Basic Insight into Reductive Functionalization Sequences of Single Walled Carbon Nanotubes (SWCNTs). <i>Journal of the American Chemical Society</i> , 2013, 135, 18385-18395.	6.6	71

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127	Noncovalent Functionalization of Black Phosphorus. <i>Angewandte Chemie</i> , 2016, 128, 14777-14782.	1.6	71
128	Water solubility, antioxidant activity and cytochrome C binding of four families of exohedral adducts of C60 and C70. <i>Organic and Biomolecular Chemistry</i> , 2007, 5, 3599.	1.5	70
129	Synthesis and Chiroptical Properties of Enantiomerically Pure Bis- and Trisadducts of C60 with an Inherent Chiral Addition Pattern. <i>Chemistry - A European Journal</i> , 1998, 4, 344-356.	1.7	69
130	Low-Temperature and Hysteresis-Free Electron-Transporting Layers for Efficient, Regular, and Planar Structure Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2015, 5, 1501056.	10.2	69
131	Exploring the Formation of Black Phosphorus Intercalation Compounds with Alkali Metals. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 15267-15273.	7.2	69
132	Functionalization of graphene by electrophilic alkylation of reduced graphite. <i>Chemical Communications</i> , 2012, 48, 5025.	2.2	68
133	Photoinduced electron transfer in multicomponent arrays of a π -stacked fullerene porphyrin dyad and diazabicyclooctane or a fulleropyrrolidine ligand. <i>Chemical Communications</i> , 2000, , 375-376.	2.2	67
134	Endohedral chemical shifts in higher fullerenes with 72-86 carbon atoms. <i>Theoretical Chemistry Accounts</i> , 2001, 106, 364-368.	0.5	67
135	Electrostatic Assemblies of Fullerene ⁺ Porphyrin Hybrids: Toward Long-Lived Charge Separation. <i>Journal of Physical Chemistry B</i> , 2003, 107, 13273-13279.	1.2	65
136	A General Approach To Study the Thermodynamics of Ligand Adsorption to Colloidal Surfaces Demonstrated by Means of Catechols Binding to Zinc Oxide Quantum Dots. <i>Chemistry of Materials</i> , 2015, 27, 358-369.	3.2	64
137	Quantitative Determination and Comparison of the Surface Binding of Phosphonic Acid, Carboxylic Acid, and Catechol Ligands on TiO ₂ Nanoparticles. <i>Chemistry - A European Journal</i> , 2016, 22, 13506-13512.	1.7	63
138	Supramolecular assembly of a quasi-linear heterofullerene ⁺ porphyrin dyad. <i>Journal of Materials Chemistry</i> , 2002, 12, 2088-2094.	6.7	62
139	Preferred Functionalization of Metallic and Small-Diameter Single-Walled Carbon Nanotubes by Nucleophilic Addition of Organolithium and Magnesium Compounds Followed by Reoxidation. <i>Chemistry - A European Journal</i> , 2008, 14, 1607-1614.	1.7	62
140	Selective Polycarboxylation of Semiconducting Single-Walled Carbon Nanotubes by Reductive Sidewall Functionalization. <i>Journal of the American Chemical Society</i> , 2011, 133, 19459-19473.	6.6	62
141	Synthesis and Electrochemistry of Diels-Alder Adducts of [60] Fullerene with a Phthalocyanine and a Hemiporphyrazine. <i>Chemische Berichte</i> , 1997, 130, 1375-1378.	0.2	61
142	Efficient Synthetic Access to Cationic Dendrons and Their Application for ZnO Nanoparticles Surface Functionalization: New Building Blocks for Dye-Sensitized Solar Cells. <i>Journal of the American Chemical Society</i> , 2010, 132, 17910-17920.	6.6	61
143	Few layer 2D pnictogens catalyze the alkylation of soft nucleophiles with esters. <i>Nature Communications</i> , 2019, 10, 509.	5.8	61
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