

Frank Hauke

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

155 papers	7,018 citations	43 h-index	80 g-index
172 ext. papers	7,799 ext. citations	9.3 avg, IF	5.98 L-index

#	Paper	IF	Citations
155	Liquid exfoliation of solvent-stabilized few-layer black phosphorus for applications beyond electronics. <i>Nature Communications</i> , 2015 , 6, 8563	17.4	764
154	Covalent bulk functionalization of graphene. <i>Nature Chemistry</i> , 2011 , 3, 279-86	17.6	525
153	Few-Layer Antimonene by Liquid-Phase Exfoliation. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 14345-14349	16.4	299
152	Basal-Plane Functionalization of Chemically Exfoliated Molybdenum Disulfide by Diazonium Salts. <i>ACS Nano</i> , 2015 , 9, 6018-30	16.7	232
151	Manipulating single-wall carbon nanotubes by chemical doping and charge transfer with perylene dyes. <i>Nature Chemistry</i> , 2009 , 1, 243-9	17.6	201
150	Soluble Graphene: Generation of Aqueous Graphene Solutions Aided by a Perylenebisimide-Based Bolaamphiphile. <i>Advanced Materials</i> , 2009 , 21, 4265-4269	24	189
149	Wet chemical functionalization of graphene. <i>Accounts of Chemical Research</i> , 2013 , 46, 87-96	24.3	188
148	Fundamental Insights into the Degradation and Stabilization of Thin Layer Black Phosphorus. <i>Journal of the American Chemical Society</i> , 2017 , 139, 10432-10440	16.4	181
147	Production and processing of graphene and related materials. <i>2D Materials</i> , 2020 , 7, 022001	5.9	179
146	Noncovalent Functionalization of Black Phosphorus. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 14557-14562	16.4	172
145	Post-Graphene 2D Chemistry: The Emerging Field of Molybdenum Disulfide and Black Phosphorus Functionalization. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 4338-4354	16.4	156
144	High population of individualized SWCNTs through the adsorption of water-soluble perylenes. <i>Journal of the American Chemical Society</i> , 2009 , 131, 2172-84	16.4	130
143	Nanotube surfactant design: the versatility of water-soluble perylene bisimides. <i>Advanced Materials</i> , 2010 , 22, 788-802	24	128
142	Scanning-Raman-microscopy for the statistical analysis of covalently functionalized graphene. <i>ACS Nano</i> , 2013 , 7, 5472-82	16.7	118
141	Non-covalent chemistry of graphene: electronic communication with dendronized perylene bisimides. <i>Advanced Materials</i> , 2010 , 22, 5483-7	24	109
140	Precise determination of graphene functionalization by in situ Raman spectroscopy. <i>Nature Communications</i> , 2017 , 8, 15192	17.4	105
139	On the way to graphene-pronounced fluorescence of polyhydrogenated graphene. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 754-7	16.4	97

138	The potential of perylene bisimide derivatives for the solubilization of carbon nanotubes and graphene. <i>Advanced Materials</i> , 2011 , 23, 2588-601	24	90
137	Covalent Sidewall Functionalization of SWNTs by Nucleophilic Addition of Lithium Amides. <i>European Journal of Organic Chemistry</i> , 2008 , 2008, 2544-2550	3.2	85
136	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	6.6	79
135	Synthesis of the C ₅₉ N ⁺ carbocation. A monomeric azafullerene isoelectronic to C ₆₀ . <i>Journal of the American Chemical Society</i> , 2003 , 125, 4024-5	16.4	75
134	Evidence of pronounced electronic coupling in a directly bonded fullerene--ferrocene dyad. <i>ChemPhysChem</i> , 2002 , 3, 195-205	3.2	74
133	Noncovalent Functionalization and Charge Transfer in Antimonene. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 14389-14394	16.4	68
132	Preferred functionalization of metallic and small-diameter single walled carbon nanotubes via reductive alkylation. <i>Journal of Materials Chemistry</i> , 2008 , 18, 1493		67
131	New basic insight into reductive functionalization sequences of single walled carbon nanotubes (SWCNTs). <i>Journal of the American Chemical Society</i> , 2013 , 135, 18385-95	16.4	63
130	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, 7985-95	16.4	63
129	Functionalization of graphene by electrophilic alkylation of reduced graphite. <i>Chemical Communications</i> , 2012 , 48, 5025-7	5.8	62
128	Noncovalent Functionalization of Black Phosphorus. <i>Angewandte Chemie</i> , 2016 , 128, 14777-14782	3.6	59
127	Supramolecular assembly of a quasi-linear heterofullerene-porphyrin dyad. <i>Journal of Materials Chemistry</i> , 2002 , 12, 2088-2094		59
126	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, 1607-14	4.8	58
125	Direct Covalent Coupling of Porphyrins to Graphene. <i>Journal of the American Chemical Society</i> , 2017 , 139, 11760-11765	16.4	54
124	Selective polycarboxylation of semiconducting single-walled carbon nanotubes by reductive sidewall functionalization. <i>Journal of the American Chemical Society</i> , 2011 , 133, 19459-73	16.4	54
123	Magnetic fullerenes inside single-wall carbon nanotubes. <i>Physical Review Letters</i> , 2006 , 97, 136801	7.4	54
122	Exploring the Formation of Black Phosphorus Intercalation Compounds with Alkali Metals. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 15267-15273	16.4	53
121	Few-Layer Antimonene by Liquid-Phase Exfoliation. <i>Angewandte Chemie</i> , 2016 , 128, 14557-14561	3.6	53

120	Mapping charge transport by electroluminescence in chirality-selected carbon nanotube networks. <i>ACS Nano</i> , 2013 , 7, 7428-35	16.7	53
119	Unifying Principles of the Reductive Covalent Graphene Functionalization. <i>Journal of the American Chemical Society</i> , 2017 , 139, 5175-5182	16.4	48
118	Mono- and Ditopic Bisfunctionalization of Graphene. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 5861-4	16.4	48
117	Alkoxide-intercalated NiFe-layered double hydroxides magnetic nanosheets as efficient water oxidation electrocatalysts. <i>Inorganic Chemistry Frontiers</i> , 2016 , 3, 478-487	6.8	48
116	Novel (B)-iodane-based functionalization of synthetic carbon allotropes (SCAs)-common concepts and quantification of the degree of addition. <i>Chemistry - A European Journal</i> , 2014 , 20, 16644-51	4.8	48
115	Tuning charge transfer energetics in reaction center mimics via T(h)-functionalization of fullerenes. <i>Journal of the American Chemical Society</i> , 2009 , 131, 8180-95	16.4	46
114	Few layer 2D pnictogens catalyze the alkylation of soft nucleophiles with esters. <i>Nature Communications</i> , 2019 , 10, 509	17.4	45
113	Solvent-driven electron trapping and mass transport in reduced graphites to access perfect graphene. <i>Nature Communications</i> , 2016 , 7, 12411	17.4	45
112	Basic Insights into Tunable Graphene Hydrogenation. <i>Journal of the American Chemical Society</i> , 2016 , 138, 1647-52	16.4	43
111	Lattice Opening upon Bulk Reductive Covalent Functionalization of Black Phosphorus. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 5763-5768	16.4	42
110	Novel EDTA-ligands containing an integral perylene bisimide (PBI) core as an optical reporter unit. <i>Organic and Biomolecular Chemistry</i> , 2014 , 12, 7045-58	3.9	42
109	Statistical Raman spectroscopy: an method for the characterization of covalently functionalized single-walled carbon nanotubes. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 11727-30	16.4	41
108	C59N+: A key intermediate in azaheterofullerene chemistry. <i>Tetrahedron</i> , 2001 , 57, 3697-3708	2.4	41
107	Interfacing strong electron acceptors with single wall carbon nanotubes. <i>Journal of the American Chemical Society</i> , 2011 , 133, 4580-6	16.4	40
106	Reductive retrofunctionalization of single-walled carbon nanotubes. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 3322-5	16.4	40
105	Perylene-based non-covalent functionalization of 2D materials. <i>FlatChem</i> , 2017 , 1, 89-103	5.1	39
104	Degree of functionalisation dependence of individual Raman intensities in covalent graphene derivatives. <i>Scientific Reports</i> , 2017 , 7, 45165	4.9	37
103	Dispersion of HiPco and CoMoCAT single-walled nanotubes (SWNTs) by water soluble pyrene derivatives--depletion of small diameter SWNTs. <i>Chemistry - A European Journal</i> , 2010 , 16, 3314-7	4.8	37

102	Fractioning HiPco and CoMoCAT SWCNTs via density gradient ultracentrifugation by the aid of a novel perylene bisimide derivative surfactant. <i>Chemical Communications</i> , 2009 , 2643-5	5.8	32
101	Liquid phase exfoliation of carbonate-intercalated layered double hydroxides. <i>Chemical Communications</i> , 2019 , 55, 3315-3318	5.8	30
100	Fundamental Insights into the Reductive Covalent Cross-Linking of Single-Walled Carbon Nanotubes. <i>Journal of the American Chemical Society</i> , 2018 , 140, 3352-3360	16.4	30
99	Encapsulating C59N azafullerene derivatives inside single-wall carbon nanotubes. <i>Carbon</i> , 2006 , 44, 1958-1962	10.4	30
98	Screening of the chemical reactivity of three different graphite sources using the formation of reductively alkylated graphene as a model reaction. <i>Chemical Communications</i> , 2013 , 49, 10811-3	5.8	29
97	A Novel Diameter-Selective Functionalization of SWCNTs with Lithium Alkynylides. <i>European Journal of Organic Chemistry</i> , 2010 , 2010, 1494-1501	3.2	29
96	Determination of the surfactant density on SWCNTs by analytical ultracentrifugation. <i>Chemistry - A European Journal</i> , 2010 , 16, 13176-84	4.8	28
95	Interface Molecular Engineering for Laminated Monolithic Perovskite/Silicon Tandem Solar Cells with 80.4% Fill Factor. <i>Advanced Functional Materials</i> , 2019 , 29, 1901476	15.6	27
94	Reductive arylation of graphene: Insights into a reversible carbon allotrope functionalization reaction. <i>Physica Status Solidi (B): Basic Research</i> , 2014 , 251, 2536-2540	1.3	27
93	Mannich functionalization of C59N. <i>Chemical Communications</i> , 1999 , 2199-2200	5.8	27
92	Perylene-based nanotweezers: enrichment of larger-diameter single-walled carbon nanotubes. <i>Chemistry - an Asian Journal</i> , 2011 , 6, 438-44	4.5	26
91	Quantitative Transduction of Excited-State Energy in Fluorophore-Heterofullerene Conjugates. <i>European Journal of Organic Chemistry</i> , 2005 , 2005, 1741-1751	3.2	26
90	Highly Regioselective Alkylation of Hexabenzocoronenes: Fundamental Insights into the Covalent Chemistry of Graphene. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 12184-12190	16.4	25
89	Noncovalent Functionalization and Charge Transfer in Antimonene. <i>Angewandte Chemie</i> , 2017 , 129, 14581-14586	14.5	24
88	Polyhydrogenated Graphene: Excited State Dynamics in Photo- and Electroactive Two-Dimensional Domains. <i>Journal of the American Chemical Society</i> , 2015 , 137, 13079-86	16.4	24
87	Covalently linked heterofullerene-porphyrin conjugates; new model systems for long-lived intramolecular charge separation. <i>Tetrahedron</i> , 2006 , 62, 1923-1927	2.4	23
86	Highly Efficient and Reversible Covalent Patterning of Graphene: 2D-Management of Chemical Information. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 5602-5606	16.4	23
85	Mono- und ditope Bisfunktionalisierung von Graphen. <i>Angewandte Chemie</i> , 2016 , 128, 5956-5960	3.6	23

84	Monolayer black phosphorus by sequential wet-chemical surface oxidation. <i>RSC Advances</i> , 2019 , 9, 3570-3576	3.7	22
83	Brominated single walled carbon nanotubes as versatile precursors for covalent sidewall functionalization. <i>Chemical Communications</i> , 2014 , 50, 6582-4	5.8	22
82	Enhanced adsorption affinity of anionic perylene-based surfactants towards smaller-diameter SWCNTs. <i>Chemistry - A European Journal</i> , 2010 , 16, 13185-92	4.8	22
81	Auf dem Weg zu Graphan: Ausgeprägte Fluoreszenz von polyhydriertem Graphen. <i>Angewandte Chemie</i> , 2013 , 125, 782-786	3.6	21
80	Diameter dependence of the defect-induced Raman modes in functionalized carbon nanotubes. <i>Carbon</i> , 2017 , 112, 1-7	10.4	21
79	Zweidimensionale Chemie jenseits von Graphen: das aufstrebende Gebiet der Funktionalisierung von Molybdädisulfid und schwarzem Phosphor. <i>Angewandte Chemie</i> , 2018 , 130, 4421-4437	3.6	20
78	Substrate-Modulated Reductive Graphene Functionalization. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 14858-14862	16.4	20
77	Region-selective self-assembly of functionalized carbon allotropes from solution. <i>ACS Nano</i> , 2013 , 7, 11427-34	16.7	20
76	Mechanical cleaning of graphene using in situ electron microscopy. <i>Nature Communications</i> , 2020 , 11, 1743	17.4	19
75	Regioselective formation of highly functionalised heterofullerenes: pentamalonates of RC59N involving an octahedral addition pattern. <i>Chemical Communications</i> , 2001 , 1316-1317	5.8	19
74	Lower rim mono-functionalization of resorcinarenes. <i>Chemical Communications</i> , 2005 , 4164-6	5.8	18
73	Molecular satellite dishes: attaching parabolic and planar arenes to heterofullerenes. <i>Chemical Communications</i> , 2004 , 766-7	5.8	18
72	Recent Advances in Graphene Patterning. <i>ChemPlusChem</i> , 2020 , 85, 1655-1668	2.8	16
71	Spatially Resolved Bottom-Side Fluorination of Graphene by Two-Dimensional Substrate Patterning. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 6700-6705	16.4	15
70	A supramolecular approach for the facile solubilization and separation of covalently functionalized single-walled carbon nanotubes. <i>Chemistry - A European Journal</i> , 2014 , 20, 2537-41	4.8	15
69	A universal ultracentrifuge spectrometer visualizes CNT-intercalant-surfactant complexes. <i>ChemPhysChem</i> , 2010 , 11, 3224-7	3.2	15
68	The first fullerene-heterofullerene dyad. <i>Chemical Communications</i> , 2004 , 600-1	5.8	15
67	Electronic and Magnetic Properties of Black Phosphorus. <i>Physica Status Solidi (B): Basic Research</i> , 2017 , 254, 1700232	1.3	14

66	Highly Regioselective Alkylation of Hexabenzocoronenes: Fundamental Insights into the Covalent Chemistry of Graphene. <i>Angewandte Chemie</i> , 2017 , 129, 12352-12358	3.6	14
65	Exfoliation of hexa-peri-hexabenzocoronene in water. <i>Chemical Communications</i> , 2010 , 46, 9194-6	5.8	14
64	Counterion effect on the aggregation of anionic perylene dyes and the influence on carbon nanotube dispersion efficiencies. <i>Journal of Materials Chemistry</i> , 2011 , 21, 3554		14
63	Covalent Inter-Carbon-Allotrope Architectures Consisting of the Endohedral Fullerene Sc N@C and Single-Walled Carbon Nanotubes. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 8058-8062	16.4	13
62	Naphthalenebisimides as photofunctional surfactants for SWCNTs - towards water-soluble electron donor-acceptor hybrids. <i>Chemical Science</i> , 2015 , 6, 6886-6895	9.4	13
61	Oxo-Functionalized Graphene: A Versatile Precursor for Alkylated Graphene Sheets by Reductive Functionalization. <i>Chemistry - A European Journal</i> , 2018 , 24, 13348-13354	4.8	13
60	Optical visualization of carbon nanotubes-a unifying linkage between microscopic and spectroscopic characterization techniques. <i>Small</i> , 2010 , 6, 1968-73	11	13
59	Evaluation of an Intramolecular Approach for the Synthesis of the Elusive C ₅₈ N ₂ Heterofullerene Family. <i>European Journal of Organic Chemistry</i> , 2008 , 2008, 4109-4119	3.2	13
58	Covalently Doped Graphene Superlattices: Spatially Resolved Supratopic- and Janus-Binding. <i>Journal of the American Chemical Society</i> , 2020 , 142, 16016-16022	16.4	13
57	Exploring the Formation of Black Phosphorus Intercalation Compounds with Alkali Metals. <i>Angewandte Chemie</i> , 2017 , 129, 15469-15475	3.6	12
56	Covalent Inter-Synthetic-Carbon-Allotrope Hybrids. <i>Accounts of Chemical Research</i> , 2019 , 52, 2037-2045	24.3	12
55	Covalent Functionalization of Carbon Nanotubes	135-198	12
54	Fullerenes (C ₆₀) versus heteroazafullerenes (C ₅₉ N); a photophysical comparison of their monoadducts and hexaadducts. <i>Research on Chemical Intermediates</i> , 2002 , 28, 817-830	2.8	12
53	Quantifying the Covalent Functionalization of Black Phosphorus. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 20230-20234	16.4	12
52	Covalent 2D-Engineering of Graphene by Spatially Resolved Laser Writing/Reading/Erasing. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 23329-23334	16.4	12
51	Controlling the Degree of Functionalization: In-Depth Quantification and Side-Product Analysis of Diazonium Chemistry on SWCNTs. <i>Chemistry - A European Journal</i> , 2019 , 25, 12761-12768	4.8	11
50	Density gradient ultracentrifugation on carbon nanotubes according to structural integrity as a foundation for an absolute purity evaluation. <i>ChemPhysChem</i> , 2011 , 12, 2576-80	3.2	11
49	Monomeric azaheterofullerene derivatives RC ₅₉ N: influence of the R moiety on spectroscopic and photophysical properties. <i>Chemistry - A European Journal</i> , 2006 , 12, 4813-20	4.8	11

48	Modular Covalent Graphene Functionalization with C and the Endohedral Fullerene Sc N@C : A Facile Entry to Synthetic-Carbon-Allotrope Hybrids. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 816-820	16.4	11
47	Gitteröffnung durch reduktive kovalente Volumen-Funktionalisierung von schwarzem Phosphor. <i>Angewandte Chemie</i> , 2019 , 131, 5820-5826	3.6	10
46	Tuning the adsorption of perylene-based surfactants on the surface of single-walled carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2013 , 250, 2592-2598	1.3	10
45	Statistische Raman-Spektroskopie Eine Methode zur Charakterisierung von kovalent funktionalisierten einwandigen Kohlenstoffnanoröhren. <i>Angewandte Chemie</i> , 2012 , 124, 11897-11900	3.6	10
44	Understanding the Electron-Doping Mechanism in Potassium-Intercalated Single-Walled Carbon Nanotubes. <i>Journal of the American Chemical Society</i> , 2020 , 142, 2327-2337	16.4	10
43	Noncovalent Functionalization and Passivation of Black Phosphorus with Optimized Perylene Diimides for Hybrid Field Effect Transistors. <i>Advanced Materials Interfaces</i> , 2020 , 7, 2001290	4.6	10
42	A Straightforward Approach to Multifunctional Graphene. <i>Chemistry - A European Journal</i> , 2019 , 25, 13218813223	16.4	9
41	Fractal-seaweeds type functionalization of graphene. <i>Carbon</i> , 2020 , 158, 435-448	10.4	9
40	Characterizing the maximum number of layers in chemically exfoliated graphene. <i>Scientific Reports</i> , 2019 , 9, 19480	4.9	9
39	Exohedral Addition Chemistry of the Fullerenide Anions C and C. <i>Chemistry - A European Journal</i> , 2019 , 25, 5186-5201	4.8	9
38	Interface Amorphization of Two-Dimensional Black Phosphorus upon Treatment with Diazonium Salts. <i>Chemistry - A European Journal</i> , 2021 , 27, 3361-3366	4.8	9
37	Molecular embroidering of graphene. <i>Nature Communications</i> , 2021 , 12, 552	17.4	9
36	Selective reduction of SWCNTs to concepts and insights. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 3937-3947	4.7	8
35	Topology-Driven Reductive Silylation of Synthetic Carbon Allotropes. <i>Journal of the American Chemical Society</i> , 2016 , 138, 15642-15647	16.4	8
34	Substratmodulierte reduktive Graphenfunktionalisierung. <i>Angewandte Chemie</i> , 2016 , 128, 15080-15084	3.6	8
33	Electronic properties of propylamine-functionalized single-walled carbon nanotubes. <i>ChemPhysChem</i> , 2010 , 11, 2444-8	3.2	8
32	Covalent Inter-Carbon-Allotrope Architectures Consisting of the Endohedral Fullerene Sc ₃ N@C ₈₀ and Single-Walled Carbon Nanotubes. <i>Angewandte Chemie</i> , 2019 , 131, 8142-8146	3.6	7
31	Spatially Resolved Bottom-Side Fluorination of Graphene by Two-Dimensional Substrate Patterning. <i>Angewandte Chemie</i> , 2020 , 132, 6766-6771	3.6	7

30	Encapsulating C59N azafullerenes inside single-wall carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2006 , 243, 3263-3267	1.3	7
29	Direct Laser Writing on Graphene with Unprecedented Efficiency of Covalent Two-Dimensional Functionalization. <i>Journal of the American Chemical Society</i> , 2020 , 142, 21926-21931	16.4	7
28	Highly Integrated Organic/Inorganic Hybrid Architectures by Noncovalent Exfoliation of Graphite and Assembly with Zinc Oxide Nanoparticles. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1600365	4.6	7
27	Ultralong Spin Lifetime in Light Alkali Atom Doped Graphene. <i>ACS Nano</i> , 2020 , 14, 7492-7501	16.7	6
26	Few-layer Black Phosphorous Catalyzes Radical Additions to Alkenes Faster than Low-valence Metals. <i>ChemCatChem</i> , 2020 , 12, 2226-2232	5.2	6
25	Isomerically Pure Star-Shaped Triphenylene-Perylene Hybrids Involving Highly Extended π -Conjugation. <i>Chemistry - A European Journal</i> , 2018 , 24, 4671-4679	4.8	6
24	Highly Efficient and Reversible Covalent Patterning of Graphene: 2D-Management of Chemical Information. <i>Angewandte Chemie</i> , 2020 , 132, 5651-5655	3.6	6
23	Transport, magnetic and vibrational properties of chemically exfoliated few-layer graphene. <i>Physica Status Solidi (B): Basic Research</i> , 2015 , 252, 2438-2443	1.3	4
22	Raman bands of nano-graphene flakes on carbon nanotubes after oxidation. <i>Physica Status Solidi (B): Basic Research</i> , 2013 , 250, 2687-2691	1.3	4
21	Reduktive Retro-Funktionalisierung einwandiger Kohlenstoffnanoröhren. <i>Angewandte Chemie</i> , 2010 , 122, 3394-3397	3.6	4
20	Metallic bundles of single-wall carbon nanotubes probed by electron spin resonance. <i>Physica Status Solidi (B): Basic Research</i> , 2007 , 244, 3885-3889	1.3	4
19	Evolution of Graphene Patterning: From Dimension Regulation to Molecular Engineering. <i>Advanced Materials</i> , 2021 , 33, e2104060	24	4
18	Reductive diazotation of carbon nanotubes: an experimental and theoretical selectivity study. <i>Chemical Science</i> , 2019 , 10, 706-717	9.4	3
17	Hypervalent Iodine Compounds as Versatile Reagents for Extremely Efficient and Reversible Patterning of Graphene with Nanoscale Precision. <i>Advanced Materials</i> , 2021 , 33, e2101653	24	3
16	Reductive Functionalization of Graphenides With Nickel(II) Porphyrin Diazonium Compounds. <i>Physica Status Solidi - Rapid Research Letters</i> , 2017 , 11, 1700306	2.5	2
15	Resonant Raman scattering on carbon nanotubes covalently functionalized with lithium decyne. <i>Physica Status Solidi (B): Basic Research</i> , 2010 , 247, 2863-2866	1.3	2
14	Quantifizierung der kovalenten Funktionalisierung von schwarzem Phosphor. <i>Angewandte Chemie</i> , 2020 , 132, 20406-20411	3.6	2
13	Covalent 2D Patterning, Local Electronic Structure and Polarization Switching of Graphene at the Nanometer Level. <i>Chemistry - A European Journal</i> , 2021 , 27, 8709-8713	4.8	2

12	Modular Covalent Graphene Functionalization with C60 and the Endohedral Fullerene Sc3N@C80: A Facile Entry to Synthetic-Carbon-Allotrope Hybrids. <i>Angewandte Chemie</i> , 2019 , 131, 826-830	3.6	2
11	A straightforward reductive approach for the deoxygenation, activation and functionalization of ultrashort single-walled carbon nanotubes. <i>Carbon</i> , 2021 , 171, 768-776	10.4	2
10	Effect of TCNQ Layer Cover on Oxidation Dynamics of Black Phosphorus. <i>Physica Status Solidi - Rapid Research Letters</i> , 2018 , 12, 1800179	2.5	2
9	Tuning Conductivity and Spin Dynamics in Few-Layer Graphene via In Situ Potassium Exposure. <i>Physica Status Solidi (B): Basic Research</i> , 2020 , 257, 2000368	1.3	1
8	Kovalente 2D-Strukturierung von Graphen durch räumlich aufgelöste Laserschreiben/Lesen/Löschen. <i>Angewandte Chemie</i> , 2020 , 132, 23529-23534	3.6	1
7	Controlling the Formation of Sodium/Black Phosphorus Intercalation Compounds Towards High Sodium Content. <i>Batteries and Supercaps</i> , 2021 , 4, 1304-1309	5.6	1
6	A general concept for highly efficient covalent laser patterning of graphene based on silver carboxylates. <i>Chemical Communications</i> , 2021 , 57, 4654-4657	5.8	1
5	Electronic Properties of Air-Sensitive Nanomaterials Probed with Microwave Impedance Measurements. <i>Physica Status Solidi (B): Basic Research</i> , 2018 , 255, 1800250	1.3	1
4	Hierarchical Assembly and Sensing Activity of Patterned Graphene-Hamilton Receptor Nanostructures. <i>Advanced Materials Interfaces</i> , 2020 , 2200425	4.6	1
3	Carbon Nano-onions: Potassium Intercalation and Reductive Covalent Functionalization. <i>Journal of the American Chemical Society</i> , 2021 , 143, 18997-19007	16.4	0
2	Organic Field Effect Transistors: Noncovalent Functionalization and Passivation of Black Phosphorus with Optimized Perylene Diimides for Hybrid Field Effect Transistors (Adv. Mater. Interfaces 23/2020). <i>Advanced Materials Interfaces</i> , 2020 , 7, 2070131	4.6	
1	Negative molecular ions of azafullerenes and their hydrogenated derivatives. <i>Physics of the Solid State</i> , 2002 , 44, 554-556	0.8	