Reinhard Fj Berger

List of Publications by Year
in descending order

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63 papers	5,358 citations	81743 39 h-index	102304 66 g-index
67 all docs	67 docs citations	67 times ranked	5885 citing authors

#	Article	IF	Citations
1	Dipyrene-Fused Dicyclopenta[a,f]naphthalenes. Journal of Organic Chemistry, 2020, 85, 215-223.	1.7	16
2	Topological Defect-Induced Magnetism in a Nanographene. Journal of the American Chemical Society, 2020, 142, 1147-1152.	6.6	106
3	Topological frustration induces unconventional magnetism in a nanographene. Nature Nanotechnology, 2020, 15, 22-28.	15.6	227
4	Synthese von Vinylâ€verknÃ¼pften zweidimensionalen konjugierten Polymeren via Hornerâ€Wadsworthâ€Emmonsâ€Reaktion. Angewandte Chemie, 2020, 132, 23827-23832.	1.6	18
5	On-Surface Synthesis of Non-Benzenoid Nanographenes by Oxidative Ring-Closure and Ring-Rearrangement Reactions. Journal of the American Chemical Society, 2020, 142, 13565-13572.	6.6	58
6	Synthesis of Vinyleneâ€Linked Twoâ€Dimensional Conjugated Polymers via the Hornerâ€“Wadsworthâ€“Emmons Reaction. Angewandte Chemie - International Edition, 2020, 59, 23620-23625.	7.2	86
7	Force-Activated Isomerization of a Single Molecule. Journal of the American Chemical Society, 2020, 142, 10673-10680.	6.6	16
8	Onâ€Surface Synthesis of NBNâ€Doped Zigzagâ€Edged Graphene Nanoribbons. Angewandte Chemie, 2020, 132, 8958-8964.	1.6	20
9	Polycyclic aromatic chains on metals and insulating layers by repetitive [3+2]Âcycloadditions. Nature Communications, 2020, 11, 1490.	5.8	23
10	Onâ€Surface Synthesis of NBNâ€Doped Zigzagâ€Edged Graphene Nanoribbons. Angewandte Chemie - International Edition, 2020, 59, 8873-8879.	7.2	61
11	Production and processing of graphene and related materials. 2D Materials, 2020, 7, 022001.	2.0	333
12	Onâ€Surface Synthesis of Cumuleneâ€Containing Polymers via Twoâ€Step Dehalogenative Homocoupling of Dibromomethyleneâ€Functionalized Tribenzoazulene. Angewandte Chemie, 2020, 132, 13383-13389.	1.6	15
13	Onâ€Surface Synthesis of Cumuleneâ€Containing Polymers via Twoâ€Step Dehalogenative Homocoupling of Dibromomethyleneâ€Functionalized Tribenzoazulene. Angewandte Chemie - International Edition, 2020, 59, 13281-13287.	7.2	23
14	Collective Allâ€Carbon Magnetism in Triangulene Dimers**. Angewandte Chemie, 2020, 132, 12139-12145.	1.6	23
15	Collective Allâ€Carbon Magnetism in Triangulene Dimers**. Angewandte Chemie - International Edition, 2020, 59, 12041-12047.	7.2	96
16	A Nitrogenâ€Rich 2D sp²â€Carbonâ€Linked Conjugated Polymer Framework as a Highâ€Performance Cathode for Lithiumâ€Ion Batteries. Angewandte Chemie, 2019, 131, 859-863.	1.6	71
17	Open-Shell Nonbenzenoid Nanographenes Containing Two Pairs of Pentagonal and Heptagonal Rings. Journal of the American Chemical Society, 2019, 141, 12011-12020.	6.6	112
18	Synthesis and Characterization of Ï€-Extended Triangulene. Journal of the American Chemical Society, 2019, 141, 10621-10625.	6.6	165

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19	A Crystalline, 2D Polyarylimide Cathode for Ultrastable and Ultrafast Li Storage. Advanced Materials, 2019, 31, e1901478.	11.1	192
20	On-Surface Synthesis of a Nonplanar Porous Nanographene. Journal of the American Chemical Society, 2019, 141, 7726-7730.	6.6	61
21	Fully sp²â€Carbonâ€Linked Crystalline Twoâ€Dimensional Conjugated Polymers: Insight into 2D Poly(phenylenecyanovinylene) Formation and its Optoelectronic Properties. Chemistry - A European Journal, 2019, 25, 6562-6568.	1.7	40
22	Surface-Synthesized Graphene Nanoribbons for Room Temperature Switching Devices: Substrate Transfer and ex Situ Characterization. ACS Applied Nano Materials, 2019, 2, 2184-2192.	2.4	75
23	Nonlinear Optical Switching in Regioregular Porphyrin Covalent Organic Frameworks. Angewandte Chemie, 2019, 131, 6970-6974.	1.6	43
24	Nonlinear Optical Switching in Regioregular Porphyrin Covalent Organic Frameworks. Angewandte Chemie - International Edition, 2019, 58, 6896-6900.	7.2	135
25	On-surface synthesis of nitrogen-doped nanographenes with 5â€“7 membered rings. Chemical Communications, 2019, 55, 4731-4734.	2.2	23
26	Graphene Nanoribbons Derived from Zigzag Edge-Encased Poly(para-2,9-dibenzo[bc,kl]coronenylene) Polymer Chains. Journal of the American Chemical Society, 2019, 141, 2843-2846.	6.6	40
27	Polycyclic Aromatic Hydrocarbons Containing A Pyrrolopyridazine Core. ChemPlusChem, 2019, 84, 613-618.	1.3	7
28	Wave-shaped polycyclic hydrocarbons with controlled aromaticity. Chemical Science, 2019, 10, 4025-4031.	3.7	35
29	NBN-embedded Polycyclic Aromatic Hydrocarbons Containing Pentagonal and Heptagonal Rings. Organic Letters, 2019, 21, 1354-1358.	2.4	45
30	Helical Ullazineâ€Quinoxalineâ€Based Polycyclic Aromatic Hydrocarbons. Chemistry - A European Journal, 2019, 25, 1345-1352.	1.7	20
31	A Nitrogenâ€Rich 2D sp²â€Carbonâ€Linked Conjugated Polymer Framework as a Highâ€Performance Cathode for Lithiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2019, 58, 849-853.	7.2	275
32	The mechanochemical Scholl reaction â€“ a solvent-free and versatile graphitization tool. Chemical Communications, 2018, 54, 5307-5310.	2.2	59
33	On-Surface Growth Dynamics of Graphene Nanoribbons: The Role of Halogen Functionalization. ACS Nano, 2018, 12, 74-81.	7.3	135
34	Tailoring Bond Topologies in Open-Shell Graphene Nanostructures. ACS Nano, 2018, 12, 11917-11927.	7.3	118
35	Pyrene-Fused s-Indacene. Journal of Organic Chemistry, 2018, 83, 6633-6639.	1.7	17
36	Exploration of Thiazolo[5,4â€d]thiazole Linkages in Conjugated Porous Organic Polymers for Chemoselective Molecular Sieving. Chemistry - A European Journal, 2018, 24, 10868-10875.	1.7	39

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37	Toward Full Zigzag-Edged Nanographenes: peri-Tetracene and Its Corresponding Circumanthracene. Journal of the American Chemical Society, 2018, 140, 6240-6244.	6.6	98
38	Persulfurated Coronene: A New Generation of â€œSulflowerâ€. Journal of the American Chemical Society, 2017, 139, 2168-2171.	6.6	89
39	A Stable Saddleâ€Shaped Polycyclic Hydrocarbon with an Openâ€Shell Singlet Ground State. Angewandte Chemie, 2017, 129, 3328-3332.	1.6	40
40	A Stable Saddleâ€Shaped Polycyclic Hydrocarbon with an Openâ€Shell Singlet Ground State. Angewandte Chemie - International Edition, 2017, 56, 3280-3284.	7.2	90
41	Ï€-Extended and Curved Antiaromatic Polycyclic Hydrocarbons. Journal of the American Chemical Society, 2017, 139, 7513-7521.	6.6	55
42	Monitoring the On-Surface Synthesis of Graphene Nanoribbons by Mass Spectrometry. Analytical Chemistry, 2017, 89, 7485-7492.	3.2	7
43	Polycyclic heteroaromatic hydrocarbons containing a benzoisoindole core. Organic Chemistry Frontiers, 2017, 4, 847-852.	2.3	23
44	Probing optical excitations in chevron-like armchair graphene nanoribbons. Nanoscale, 2017, 9, 18326-18333.	2.8	19
45	Cationic Nitrogenâ€Doped Helical Nanographenes. Angewandte Chemie - International Edition, 2017, 56, 15876-15881.	7.2	77
46	On-surface Synthesis of Graphene Nanoribbons through Solution-processing of Monomers. Chemistry Letters, 2017, 46, 1476-1478.	0.7	11
47	Nanographenes and Graphene Nanoribbons with Zigzag-Edged Structures. Advances in Polymer Science, 2017, , 1-32.	0.4	11
48	Kationische stickstoffdotierte helikale Nanographene. Angewandte Chemie, 2017, 129, 16092-16097.	1.6	27
49	Toward a molecular design of porous carbon materials. Materials Today, 2017, 20, 592-610.	8.3	202
50	Exploration of pyrazine-embedded antiaromatic polycyclic hydrocarbons generated by solution and on-surface azomethine ylide homocoupling. Nature Communications, 2017, 8, 1948.	5.8	88
51	Synthesis of NBN-Type Zigzag-Edged Polycyclic Aromatic Hydrocarbons: 1,9-Diaza-9a-boraphenalene as a Structural Motif. Journal of the American Chemical Society, 2016, 138, 11606-11615.	6.6	121
52	Purely Armchair or Partially Chiral: Noncontact Atomic Force Microscopy Characterization of Dibromo-Bianthryl-Based Graphene Nanoribbons Grown on Cu(111). ACS Nano, 2016, 10, 8006-8011.	7.3	111
53	Synthesis of Graphene Nanoribbons by Ambient-Pressure Chemical Vapor Deposition and Device Integration. Journal of the American Chemical Society, 2016, 138, 15488-15496.	6.6	129
54	Fused Dibenzo[a,m]rubicene: A New Bowl-Shaped Subunit of C₇₀ Containing Two Pentagons. Journal of the American Chemical Society, 2016, 138, 8364-8367.	6.6	66

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55	Electronic band dispersion of graphene nanoribbons via Fourier-transformed scanning tunneling spectroscopy. Physical Review B, 2015, 91, .	1.1	85
56	Polycyclic aromatic azomethine ylides: a unique entry to extended polycyclic heteroaromatics. Chemical Science, 2015, 6, 436-441.	3.7	71
57	Direct visualization of atomically precise nitrogen-doped graphene nanoribbons. Applied Physics Letters, 2014, 105, .	1.5	82
58	Graphene nanoribbon heterojunctions. Nature Nanotechnology, 2014, 9, 896-900.	15.6	528
59	Synthesis of Nitrogenâ€Doped ZigZagâ€Edge Peripheries: Dibenzoâ€9aâ€azaphenalene as Repeating Unit. Angewandte Chemie - International Edition, 2014, 53, 10520-10524.	7.2	92
60	Photoinduced Câ€“C Reactions on Insulators toward Photolithography of Graphene Nanoarchitectures. Journal of the American Chemical Society, 2014, 136, 4651-4658.	6.6	45
61	Toward the periâ€Pentacene Framework. Chemistry - A European Journal, 2013, 19, 17821-17826.	1.7	37
62	Termini of Bottom-Up Fabricated Graphene Nanoribbons. Journal of the American Chemical Society, 2013, 135, 2060-2063.	6.6	214
63	High-Performance Electron-Transporting Polymers Derived from a Heteroaryl Bis(trifluoroborate). Journal of the American Chemical Society, 2011, 133, 9949-9951.	6.6	78