

Reinhard Fj Berger

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6682847/publications.pdf>

Version: 2024-02-01

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	Graphene nanoribbon heterojunctions. <i>Nature Nanotechnology</i> , 2014, 9, 896-900.	15.6	528
2	Production and processing of graphene and related materials. <i>2D Materials</i> , 2020, 7, 022001.	2.0	333
3	A Nitrogen-Rich 2D sp^2 -Carbon-Linked Conjugated Polymer Framework as a High-Performance Cathode for Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 849-853.	7.2	275
4	Topological frustration induces unconventional magnetism in a nanographene. <i>Nature Nanotechnology</i> , 2020, 15, 22-28.	15.6	227
5	Termini of Bottom-Up Fabricated Graphene Nanoribbons. <i>Journal of the American Chemical Society</i> , 2013, 135, 2060-2063.	6.6	214
6	Toward a molecular design of porous carbon materials. <i>Materials Today</i> , 2017, 20, 592-610.	8.3	202
7	A Crystalline, 2D Polyarylimide Cathode for Ultrastable and Ultrafast Li Storage. <i>Advanced Materials</i> , 2019, 31, e1901478.	11.1	192
8	Synthesis and Characterization of π -Extended Triangulene. <i>Journal of the American Chemical Society</i> , 2019, 141, 10621-10625.	6.6	165
9	On-Surface Growth Dynamics of Graphene Nanoribbons: The Role of Halogen Functionalization. <i>ACS Nano</i> , 2018, 12, 74-81.	7.3	135
10	Nonlinear Optical Switching in Regioregular Porphyrin Covalent Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 6896-6900.	7.2	135
11	Synthesis of Graphene Nanoribbons by Ambient-Pressure Chemical Vapor Deposition and Device Integration. <i>Journal of the American Chemical Society</i> , 2016, 138, 15488-15496.	6.6	129
12	Synthesis of NBN-Type Zigzag-Edged Polycyclic Aromatic Hydrocarbons: 1,9-Diaza-9a-boraphenalene as a Structural Motif. <i>Journal of the American Chemical Society</i> , 2016, 138, 11606-11615.	6.6	121
13	Tailoring Bond Topologies in Open-Shell Graphene Nanostructures. <i>ACS Nano</i> , 2018, 12, 11917-11927.	7.3	118
14	Open-Shell Nonbenzenoid Nanographenes Containing Two Pairs of Pentagonal and Heptagonal Rings. <i>Journal of the American Chemical Society</i> , 2019, 141, 12011-12020.	6.6	112
15	Purely Armchair or Partially Chiral: Noncontact Atomic Force Microscopy Characterization of Dibromo-Bianthryl-Based Graphene Nanoribbons Grown on Cu(111). <i>ACS Nano</i> , 2016, 10, 8006-8011.	7.3	111
16	Topological Defect-Induced Magnetism in a Nanographene. <i>Journal of the American Chemical Society</i> , 2020, 142, 1147-1152.	6.6	106
17	Toward Full Zigzag-Edged Nanographenes: <i>peri</i> -Tetracene and Its Corresponding Circumanthracene. <i>Journal of the American Chemical Society</i> , 2018, 140, 6240-6244.	6.6	98
18	Collective All-Carbon Magnetism in Triangulene Dimers**. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 12041-12047.	7.2	96

#	ARTICLE	IF	CITATIONS
19	Synthesis of Nitrogen-Doped ZigZag-Edge Peripheries: Dibenzoazaphenalene as Repeating Unit. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 10520-10524.	7.2	92
20	A Stable Saddle-Shaped Polycyclic Hydrocarbon with an Open-Shell Singlet Ground State. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 3280-3284.	7.2	90
21	Persulfurated Coronene: A New Generation of "Sulflower". <i>Journal of the American Chemical Society</i> , 2017, 139, 2168-2171.	6.6	89
22	Exploration of pyrazine-embedded antiaromatic polycyclic hydrocarbons generated by solution and on-surface azomethine ylide homocoupling. <i>Nature Communications</i> , 2017, 8, 1948.	5.8	88
23	Synthesis of Vinylene-Linked Two-Dimensional Conjugated Polymers via the Horner-Wadsworth-Emmons Reaction. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 23620-23625.	7.2	86
24	Electronic band dispersion of graphene nanoribbons via Fourier-transformed scanning tunneling spectroscopy. <i>Physical Review B</i> , 2015, 91, .	1.1	85
25	Direct visualization of atomically precise nitrogen-doped graphene nanoribbons. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	82
26	High-Performance Electron-Transporting Polymers Derived from a Heteroaryl Bis(trifluoroborate). <i>Journal of the American Chemical Society</i> , 2011, 133, 9949-9951.	6.6	78
27	Cationic Nitrogen-Doped Helical Nanographenes. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 15876-15881.	7.2	77
28	Surface-Synthesized Graphene Nanoribbons for Room Temperature Switching Devices: Substrate Transfer and <i>in situ</i> Characterization. <i>ACS Applied Nano Materials</i> , 2019, 2, 2184-2192.	2.4	75
29	Polycyclic aromatic azomethine ylides: a unique entry to extended polycyclic heteroaromatics. <i>Chemical Science</i> , 2015, 6, 436-441.	3.7	71
30	A Nitrogen-Rich 2D sp^2 -Carbon-Linked Conjugated Polymer Framework as a High-Performance Cathode for Lithium-Ion Batteries. <i>Angewandte Chemie</i> , 2019, 131, 859-863.	1.6	71
31	Fused Dibenzo[<i>a,m</i>]rubicene: A New Bowl-Shaped Subunit of C_{70} Containing Two Pentagons. <i>Journal of the American Chemical Society</i> , 2016, 138, 8364-8367.	6.6	66
32	On-Surface Synthesis of a Nonplanar Porous Nanographene. <i>Journal of the American Chemical Society</i> , 2019, 141, 7726-7730.	6.6	61
33	On-Surface Synthesis of NBN-Doped Zigzag-Edged Graphene Nanoribbons. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 8873-8879.	7.2	61
34	The mechanochemical Scholl reaction " a solvent-free and versatile graphitization tool. <i>Chemical Communications</i> , 2018, 54, 5307-5310.	2.2	59
35	On-Surface Synthesis of Non-Benzenoid Nanographenes by Oxidative Ring-Closure and Ring-Rearrangement Reactions. <i>Journal of the American Chemical Society</i> , 2020, 142, 13565-13572.	6.6	58
36	"-Extended and Curved Antiaromatic Polycyclic Hydrocarbons. <i>Journal of the American Chemical Society</i> , 2017, 139, 7513-7521.	6.6	55

#	ARTICLE	IF	CITATIONS
37	Photoinduced C=C Reactions on Insulators toward Photolithography of Graphene Nanoarchitectures. <i>Journal of the American Chemical Society</i> , 2014, 136, 4651-4658.	6.6	45
38	NBN-embedded Polycyclic Aromatic Hydrocarbons Containing Pentagonal and Heptagonal Rings. <i>Organic Letters</i> , 2019, 21, 1354-1358.	2.4	45
39	Nonlinear Optical Switching in Regioregular Porphyrin Covalent Organic Frameworks. <i>Angewandte Chemie</i> , 2019, 131, 6970-6974.	1.6	43
40	A Stable Saddle-Shaped Polycyclic Hydrocarbon with an Open-Shell Singlet Ground State. <i>Angewandte Chemie</i> , 2017, 129, 3328-3332.	1.6	40
41	Fully sp ² -Carbon-Linked Crystalline Two-Dimensional Conjugated Polymers: Insight into 2D Poly(phenylenecyanovinylene) Formation and its Optoelectronic Properties. <i>Chemistry - A European Journal</i> , 2019, 25, 6562-6568.	1.7	40
42	Graphene Nanoribbons Derived from Zigzag Edge-Encased Poly(<i>para</i> -2,9-dibenzo[<i>bc</i>]- <i>kl</i>]coronene) Polymer Chains. <i>Journal of the American Chemical Society</i> , 2019, 141, 2843-2846.	6.6	40
43	Exploration of Thiazolo[5,4- <i>d</i>]thiazole Linkages in Conjugated Porous Organic Polymers for Chemoselective Molecular Sieving. <i>Chemistry - A European Journal</i> , 2018, 24, 10868-10875.	1.7	39
44	Toward the <i>peri</i> -Pentacene Framework. <i>Chemistry - A European Journal</i> , 2013, 19, 17821-17826.	1.7	37
45	Wave-shaped polycyclic hydrocarbons with controlled aromaticity. <i>Chemical Science</i> , 2019, 10, 4025-4031.	3.7	35
46	Kationische stickstoffdotierte helikale Nanographene. <i>Angewandte Chemie</i> , 2017, 129, 16092-16097.	1.6	27
47	Polycyclic heteroaromatic hydrocarbons containing a benzoindole core. <i>Organic Chemistry Frontiers</i> , 2017, 4, 847-852.	2.3	23
48	On-surface synthesis of nitrogen-doped nanographenes with 5-7 membered rings. <i>Chemical Communications</i> , 2019, 55, 4731-4734.	2.2	23
49	Polycyclic aromatic chains on metals and insulating layers by repetitive [3+2] Cycloadditions. <i>Nature Communications</i> , 2020, 11, 1490.	5.8	23
50	On-Surface Synthesis of Cumulene-Containing Polymers via Two-Step Dehalogenative Homocoupling of Dibromomethylene-Functionalized Tribenzoazulene. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 13281-13287.	7.2	23
51	Collective All-Carbon Magnetism in Triangulene Dimers**. <i>Angewandte Chemie</i> , 2020, 132, 12139-12145.	1.6	23
52	Helical Ullazine-Quinoxaline-Based Polycyclic Aromatic Hydrocarbons. <i>Chemistry - A European Journal</i> , 2019, 25, 1345-1352.	1.7	20
53	On-Surface Synthesis of NBN-Doped Zigzag-Edged Graphene Nanoribbons. <i>Angewandte Chemie</i> , 2020, 132, 8958-8964.	1.6	20
54	Probing optical excitations in chevron-like armchair graphene nanoribbons. <i>Nanoscale</i> , 2017, 9, 18326-18333.	2.8	19

#	ARTICLE	IF	CITATIONS
55	Synthese von Vinyl- $\frac{1}{4}$ pften zweidimensionalen konjugierten Polymeren via Horner-Wadsworth-Emmons-Reaktion. <i>Angewandte Chemie</i> , 2020, 132, 23827-23832.	1.6	18
56	Pyrene-Fused <i>s</i> -Indacene. <i>Journal of Organic Chemistry</i> , 2018, 83, 6633-6639.	1.7	17
57	Dipyrene-Fused Dicyclopenta[<i>a</i> , <i>f</i>]naphthalenes. <i>Journal of Organic Chemistry</i> , 2020, 85, 215-223.	1.7	16
58	Force-Activated Isomerization of a Single Molecule. <i>Journal of the American Chemical Society</i> , 2020, 142, 10673-10680.	6.6	16
59	On-Surface Synthesis of Cumulene-Containing Polymers via Two-Step Dehalogenative Homocoupling of Dibromomethylene-Functionalized Tribenzoazulene. <i>Angewandte Chemie</i> , 2020, 132, 13383-13389.	1.6	15
60	On-surface Synthesis of Graphene Nanoribbons through Solution-processing of Monomers. <i>Chemistry Letters</i> , 2017, 46, 1476-1478.	0.7	11
61	Nanographenes and Graphene Nanoribbons with Zigzag-Edged Structures. <i>Advances in Polymer Science</i> , 2017, , 1-32.	0.4	11
62	Monitoring the On-Surface Synthesis of Graphene Nanoribbons by Mass Spectrometry. <i>Analytical Chemistry</i> , 2017, 89, 7485-7492.	3.2	7
63	Polycyclic Aromatic Hydrocarbons Containing A Pyrrolopyridazine Core. <i>ChemPlusChem</i> , 2019, 84, 613-618.	1.3	7