

Klaus MÃ¼llen

List of Publications by Year in descending order

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556
papers

71,669
citations

587

125
h-index

750

250
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575
all docs

575
docs citations

575
times ranked

48779
citing authors

#	ARTICLE	IF	CITATIONS
1	Transparent, Conductive Graphene Electrodes for Dye-Sensitized Solar Cells. <i>Nano Letters</i> , 2008, 8, 323-327.	4.5	4,164
2	Atomically precise bottom-up fabrication of graphene nanoribbons. <i>Nature</i> , 2010, 466, 470-473.	13.7	3,144
3	Graphenes as Potential Material for Electronics. <i>Chemical Reviews</i> , 2007, 107, 718-747.	23.0	2,480
4	Pyrene-Based Materials for Organic Electronics. <i>Chemical Reviews</i> , 2011, 111, 7260-7314.	23.0	1,312
5	Big Is Beautiful – Aromaticity Revisited from the Viewpoint of Macromolecular and Supramolecular Benzene Chemistry. <i>Chemical Reviews</i> , 2001, 101, 1267-1300.	23.0	1,286
6	Three-Dimensional Nitrogen and Boron Co-doped Graphene for High-Performance All-Solid-State Supercapacitors. <i>Advanced Materials</i> , 2012, 24, 5130-5135.	11.1	1,270
7	New advances in nanographene chemistry. <i>Chemical Society Reviews</i> , 2015, 44, 6616-6643.	18.7	1,212
8	Exfoliation of Graphite into Graphene in Aqueous Solutions of Inorganic Salts. <i>Journal of the American Chemical Society</i> , 2014, 136, 6083-6091.	6.6	1,181
9	On-surface synthesis of graphene nanoribbons with zigzag edge topology. <i>Nature</i> , 2016, 531, 489-492.	13.7	1,154
10	Mesoporous Metal-Nitrogen-Doped Carbon Electrocatalysts for Highly Efficient Oxygen Reduction Reaction. <i>Journal of the American Chemical Society</i> , 2013, 135, 16002-16005.	6.6	1,119
11	Graphene-based in-plane micro-supercapacitors with high power and energy densities. <i>Nature Communications</i> , 2013, 4, 2487.	5.8	1,104
12	Bottom-Up Fabrication of Photoluminescent Graphene Quantum Dots with Uniform Morphology. <i>Journal of the American Chemical Society</i> , 2011, 133, 15221-15223.	6.6	794
13	From Nanographene and Graphene Nanoribbons to Graphene Sheets: Chemical Synthesis. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 7640-7654.	7.2	725
14	Graphene as Transparent Electrode Material for Organic Electronics. <i>Advanced Materials</i> , 2011, 23, 2779-2795.	11.1	708
15	Designing π -conjugated polymers for organic electronics. <i>Progress in Polymer Science</i> , 2013, 38, 1832-1908.	11.8	698
16	Two-Dimensional Graphene Nanoribbons. <i>Journal of the American Chemical Society</i> , 2008, 130, 4216-4217.	6.6	695
17	Ultrahigh Mobility in Polymer Field-Effect Transistors by Design. <i>Journal of the American Chemical Society</i> , 2011, 133, 2605-2612.	6.6	671
18	Polyphenylene Nanostructures. <i>Chemical Reviews</i> , 1999, 99, 1747-1786.	23.0	636

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19	Polyfluorenes with Polyphenylene Dendron Side Chains: Toward Non-Aggregating, Light-Emitting Polymers. <i>Journal of the American Chemical Society</i> , 2001, 123, 946-953.	6.6	617
20	Polyphenylene-Based Materials for Organic Photovoltaics. <i>Chemical Reviews</i> , 2010, 110, 6817-6855.	23.0	617
21	Porous graphenes: two-dimensional polymer synthesis with atomic precision. <i>Chemical Communications</i> , 2009, , 6919.	2.2	610
22	Transparent Carbon Films as Electrodes in Organic Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 2990-2992.	7.2	598
23	Molecular metal-Nx centres in porous carbon for electrocatalytic hydrogen evolution. <i>Nature Communications</i> , 2015, 6, 7992.	5.8	575
24	The Rylene Colorant Family Tailored Nanoemitters for Photonics Research and Applications. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 9068-9093.	7.2	565
25	Towards high charge-carrier mobilities by rational design of the shape and periphery of discotics. <i>Nature Materials</i> , 2009, 8, 421-426.	13.3	555
26	Electrochemically Exfoliated Graphene as Solution-Processable, Highly Conductive Electrodes for Organic Electronics. <i>ACS Nano</i> , 2013, 7, 3598-3606.	7.3	532
27	Graphene nanoribbon heterojunctions. <i>Nature Nanotechnology</i> , 2014, 9, 896-900.	15.6	528
28	Design strategies for organic semiconductors beyond the molecular formula. <i>Nature Chemistry</i> , 2012, 4, 699-704.	6.6	498
29	Field-Effect Transistors Based on a Benzothiadiazole-Cyclopentadithiophene Copolymer. <i>Journal of the American Chemical Society</i> , 2007, 129, 3472-3473.	6.6	485
30	Synthesis of structurally well-defined and liquid-phase-processable graphene nanoribbons. <i>Nature Chemistry</i> , 2014, 6, 126-132.	6.6	468
31	Electrochemistry, Spectroscopy and Electrogenerated Chemiluminescence of Perylene, Terrylene, and Quaterylene Diimides in Aprotic Solution. <i>Journal of the American Chemical Society</i> , 1999, 121, 3513-3520.	6.6	453
32	Two-Dimensional Polymer Formation on Surfaces: Insight into the Roles of Precursor Mobility and Reactivity. <i>Journal of the American Chemical Society</i> , 2010, 132, 16669-16676.	6.6	449
33	Electronic Structure of Atomically Precise Graphene Nanoribbons. <i>ACS Nano</i> , 2012, 6, 6930-6935.	7.3	410
34	Title is missing!. <i>Die Makromolekulare Chemie Rapid Communications</i> , 1991, 12, 489-497.	1.1	408
35	The Influence of Morphology on High-Performance Polymer Field-Effect Transistors. <i>Advanced Materials</i> , 2009, 21, 209-212.	11.1	401
36	Engineering of robust topological quantum phases in graphene nanoribbons. <i>Nature</i> , 2018, 560, 209-213.	13.7	397

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37	Surface-assisted cyclodehydrogenation provides a synthetic route towards easily processable and chemically tailored nanographenes. <i>Nature Chemistry</i> , 2011, 3, 61-67.	6.6	395
38	Ultraflexible In-plane Micro-supercapacitors by Direct Printing of Solution-processable Electrochemically Exfoliated Graphene. <i>Advanced Materials</i> , 2016, 28, 2217-2222.	11.1	366
39	Extremely efficient terahertz high-harmonic generation in graphene by hot Dirac fermions. <i>Nature</i> , 2018, 561, 507-511.	13.7	365
40	Liquid Crystalline Ordering and Charge Transport in Semiconducting Materials. <i>Macromolecular Rapid Communications</i> , 2009, 30, 1179-1202.	2.0	360
41	Influence of Alkyl Substituents on the Solution- and Surface-Organization of Hexa-peri-hexabenzocoronenes. <i>Journal of the American Chemical Society</i> , 2005, 127, 4286-4296.	6.6	357
42	Synthesis of a Giant 222 Carbon Graphite Sheet. <i>Chemistry - A European Journal</i> , 2002, 8, 1424-1429.	1.7	352
43	A bottom-up approach from molecular nanographenes to unconventional carbon materials. <i>Journal of Materials Chemistry</i> , 2008, 18, 1472.	6.7	330
44	Short-channel field-effect transistors with 9-atom and 13-atom wide graphene nanoribbons. <i>Nature Communications</i> , 2017, 8, 633.	5.8	312
45	Diode-like Current-Voltage Curves for a Single Molecule-Tunneling Spectroscopy with Submolecular Resolution of an Alkylated,peri-Condensed Hexabenzocoronene. <i>Angewandte Chemie International Edition in English</i> , 1995, 34, 1609-1611.	4.4	309
46	Superlubricity of graphene nanoribbons on gold surfaces. <i>Science</i> , 2016, 351, 957-961.	6.0	302
47	Toward Cove-Edged Low Band Gap Graphene Nanoribbons. <i>Journal of the American Chemical Society</i> , 2015, 137, 6097-6103.	6.6	299
48	Bottom-Up Fabrication of Sulfur-Doped Graphene Films Derived from Sulfur-Annulated Nanographene for Ultrahigh Volumetric Capacitance Micro-Supercapacitors. <i>Journal of the American Chemical Society</i> , 2017, 139, 4506-4512.	6.6	294
49	Alternating Stacked Graphene-Conducting Polymer Compact Films with Ultrahigh Areal and Volumetric Capacitances for High-Energy Micro-supercapacitors. <i>Advanced Materials</i> , 2015, 27, 4054-4061.	11.1	290
50	Layer-by-Layer Assembled Heteroatom-Doped Graphene Films with Ultrahigh Volumetric Capacitance and Rate Capability for Micro-supercapacitors. <i>Advanced Materials</i> , 2014, 26, 4552-4558.	11.1	289
51	Organic Radical-Assisted Electrochemical Exfoliation for the Scalable Production of High-Quality Graphene. <i>Journal of the American Chemical Society</i> , 2015, 137, 13927-13932.	6.6	288
52	Large polycyclic aromatic hydrocarbons: Synthesis and discotic organization. <i>Pure and Applied Chemistry</i> , 2009, 81, 2203-2224.	0.9	281
53	On-Surface Synthesis of Rylene-Type Graphene Nanoribbons. <i>Journal of the American Chemical Society</i> , 2015, 137, 4022-4025.	6.6	278
54	Columnar mesophases of alkylated hexa-peri-hexabenzocoronenes with remarkably large phase widths. <i>Advanced Materials</i> , 1996, 8, 510-513.	11.1	276

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55	On-Surface Synthesis and Characterization of 9-Atom Wide Armchair Graphene Nanoribbons. ACS Nano, 2017, 11, 1380-1388.	7.3	270
56	Water-soluble perylenediimides: design concepts and biological applications. Chemical Society Reviews, 2016, 45, 1513-1528.	18.7	255
57	Uniaxial Alignment of the Columnar Super-Structure of a Hexa (Alkyl) Hexa-peri-hexabenzocoronene on Untreated Glass by Simple Solution Processing. Journal of the American Chemical Society, 2003, 125, 1682-1683.	6.6	251
58	Stable radical anions generated from a porous perylenediimide metal-organic framework for boosting near-infrared photothermal conversion. Nature Communications, 2019, 10, 767.	5.8	247
59	Nanographenes as Active Components of Single-Molecule Electronics and How a Scanning Tunneling Microscope Puts Them To Work. Accounts of Chemical Research, 2008, 41, 511-520.	7.6	244
60	Giant Polycyclic Aromatic Hydrocarbons. Chemistry - A European Journal, 1998, 4, 2099-2109.	1.7	240
61	Synthesis and Self-Assembly of Functionalized Hexa-peri-hexabenzocoronenes. Chemistry - A European Journal, 2000, 6, 4327-4342.	1.7	240
62	Electrochemically Scalable Production of Fluorine-Modified Graphene for Flexible and High-Energy Ionogel-Based Microsupercapacitors. Journal of the American Chemical Society, 2018, 140, 8198-8205.	6.6	240
63	Heteroatom-Doped Nanographenes with Structural Precision. Accounts of Chemical Research, 2019, 52, 2491-2505.	7.6	239
64	Improving polymer transistor performance via morphology control. Chemical Society Reviews, 2010, 39, 2372.	18.7	238
65	Dithieno[2,3-d;2',3'-d']benzo[1,2-b;4,5-b']dithiophene (DTBDT) as Semiconductor for High-Performance, Solution-Processed Organic Field-Effect Transistors. Advanced Materials, 2009, 21, 213-216.	11.1	237
66	Ultrathin Printable Graphene Supercapacitors with AC Line-Filtering Performance. Advanced Materials, 2015, 27, 3669-3675.	11.1	237
67	Beyond perylene diimides: synthesis, assembly and function of higher rylene chromophores. Journal of Materials Chemistry C, 2014, 2, 1938-1956.	2.7	235
68	Magnetic edge states and coherent manipulation of graphene nanoribbons. Nature, 2018, 557, 691-695.	13.7	232
69	Graphene Nanoribbons by Chemists: Nanometer-Sized, Soluble, and Defect-Free. Angewandte Chemie - International Edition, 2011, 50, 2540-2543.	7.2	228
70	Precision synthesis versus bulk-scale fabrication of graphenes. Nature Reviews Chemistry, 2018, 2, .	13.8	228
71	Topological frustration induces unconventional magnetism in a nanographene. Nature Nanotechnology, 2020, 15, 22-28.	15.6	227
72	Intramolecular Charge-Transfer Tuning of Perylenes: Spectroscopic Features and Performance in Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2007, 111, 15137-15140.	1.5	225

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73	A Water-Soluble, NIR-Absorbing Quaternarydiimide Chromophore for Photoacoustic Imaging and Efficient Photothermal Cancer Therapy. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 1638-1642.	7.2	224
74	Organic Field-Effect Transistors based on Highly Ordered Single Polymer Fibers. <i>Advanced Materials</i> , 2012, 24, 417-420.	11.1	221
75	Synthesis and Self-Organization of Core-Extended Perylene Tetracarboxdiimides with Branched Alkyl Substituents. <i>Chemistry of Materials</i> , 2006, 18, 3715-3725.	3.2	219
76	Termini of Bottom-Up Fabricated Graphene Nanoribbons. <i>Journal of the American Chemical Society</i> , 2013, 135, 2060-2063.	6.6	214
77	Giant edge state splitting at atomically precise graphene zigzag edges. <i>Nature Communications</i> , 2016, 7, 11507.	5.8	207
78	Tuning the Columnar Organization of Discotic Polycyclic Aromatic Hydrocarbons. <i>Advanced Materials</i> , 2010, 22, 3634-3649.	11.1	200
79	25th Anniversary Article: High-Mobility Hole and Electron Transport Conjugated Polymers: How Structure Defines Function. <i>Advanced Materials</i> , 2014, 26, 2119-2136.	11.1	199
80	An Investigation of π - π Packing in a Columnar Hexabenzocoronene by Fast Magic-Angle Spinning and Double-Quantum ^1H Solid-State NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 1999, 121, 6712-6718.	6.6	195
81	Multilayer stabilization for fabricating high-loading single-atom catalysts. <i>Nature Communications</i> , 2020, 11, 5892.	5.8	195
82	Patterning two-dimensional free-standing surfaces with mesoporous conducting polymers. <i>Nature Communications</i> , 2015, 6, 8817.	5.8	193
83	Liquid Crystalline Coronene Derivatives with Extraordinary Fluorescence Properties. <i>Angewandte Chemie - International Edition</i> , 1998, 37, 1434-1437.	7.2	190
84	Atomically precise edge chlorination of nanographenes and its application in graphene nanoribbons. <i>Nature Communications</i> , 2013, 4, 2646.	5.8	187
85	Structurally Defined Graphene Nanoribbons with High Lateral Extension. <i>Journal of the American Chemical Society</i> , 2012, 134, 18169-18172.	6.6	185
86	Synthesis of Large Polycyclic Aromatic Hydrocarbons: Variation of Size and Periphery. <i>Journal of the American Chemical Society</i> , 2000, 122, 7707-7717.	6.6	177
87	Benzo-Fused Double [7]Carbohelicene: Synthesis, Structures, and Physicochemical Properties. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 3374-3378.	7.2	177
88	From Hexa-peri-hexabenzocoronene to Superacenes. <i>Angewandte Chemie International Edition in English</i> , 1997, 36, 1604-1607.	4.4	173
89	Stacked-Layer Heterostructure Films of 2D Thiophene Nanosheets and Graphene for High-Rate All-Solid-State Pseudocapacitors with Enhanced Volumetric Capacitance. <i>Advanced Materials</i> , 2017, 29, 1602960.	11.1	173
90	Processing of giant graphene molecules by soft-landing mass spectrometry. <i>Nature Materials</i> , 2006, 5, 276-280.	13.3	172

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91	Polythiophene:Perylene Diimide Solar Cells – the Impact of Alkyl-Substitution on the Photovoltaic Performance. <i>Advanced Energy Materials</i> , 2011, 1, 297-302.	10.2	172
92	Intraribbon Heterojunction Formation in Ultranarrow Graphene Nanoribbons. <i>ACS Nano</i> , 2012, 6, 2020-2025.	7.3	169
93	Fluorescent Nanoparticle Delivered dsRNA Toward Genetic Control of Insect Pests. <i>Advanced Materials</i> , 2013, 25, 4580-4584.	11.1	169
94	Revealing competitive Förster-type resonance energy-transfer pathways in single bichromophoric molecules. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 13146-13151.	3.3	168
95	Relationship between Core Size, Side Chain Length, and the Supramolecular Organization of Polycyclic Aromatic Hydrocarbons. <i>Chemistry of Materials</i> , 2005, 17, 4296-4303.	3.2	168
96	Donor-Acceptor Polymers. <i>Journal of the American Chemical Society</i> , 2015, 137, 9503-9505.	6.6	166
97	Synthesis and Characterization of -Extended Triangulene. <i>Journal of the American Chemical Society</i> , 2019, 141, 10621-10625.	6.6	165
98	Quaterylenebis(dicarboximides). <i>Angewandte Chemie International Edition in English</i> , 1995, 34, 1323-1325.	4.4	161
99	Controlled Self-Assembly of Hexa-peri-hexabenzocoronenes in Solution. <i>Journal of the American Chemical Society</i> , 2004, 126, 11311-11321.	6.6	161
100	Graphene Nanoribbons: On-Surface Synthesis and Integration into Electronic Devices. <i>Advanced Materials</i> , 2020, 32, e2001893.	11.1	156
101	Self-Assembly of Periodic Bicomponent Wires and Ribbons. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 1814-1818.	7.2	155
102	Exciton-dominated optical response of ultra-narrow graphene nanoribbons. <i>Nature Communications</i> , 2014, 5, 4253.	5.8	155
103	Annularly Fused Hexapyrrolohexaazacoronenes: An Extended -System with Multiple Interior Nitrogen Atoms Displays Stable Oxidation States. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 5524-5527.	7.2	154
104	From Armchair to Zigzag Peripheries in Nanographenes. <i>Journal of the American Chemical Society</i> , 2006, 128, 9526-9534.	6.6	153
105	Evolution of Graphene Molecules: Structural and Functional Complexity as Driving Forces behind Nanoscience. <i>ACS Nano</i> , 2014, 8, 6531-6541.	7.3	152
106	Nanosized Molecular Propellers by Cyclodehydrogenation of Polyphenylene Dendrimers. <i>Journal of the American Chemical Society</i> , 2004, 126, 3139-3147.	6.6	151
107	Bottom-Up Synthesis of Chemically Precise Graphene Nanoribbons. <i>Chemical Record</i> , 2015, 15, 295-309.	2.9	151
108	Polyphenylene-type Emissive Materials: Poly(para-phenylene)s, Polyfluorenes, and Ladder Polymers. <i>Advances in Polymer Science</i> , 2006, , 1-82.	0.4	150

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109	Thermodynamic picture of ultrafast charge transport in graphene. <i>Nature Communications</i> , 2015, 6, 7655.	5.8	147
110	Mobility Exceeding $10 \text{ cm}^2/(\text{V}\cdot\text{s})$ in Donor-Acceptor Polymer Transistors with Band-like Charge Transport. <i>Chemistry of Materials</i> , 2016, 28, 420-424.	3.2	147
111	A Divergent Synthesis of Very Large Polyphenylene Dendrimers with Iridium(III) Cores: Molecular Size Effect on the Performance of Phosphorescent Organic Light-Emitting Diodes. <i>Journal of the American Chemical Society</i> , 2009, 131, 14329-14336.	6.6	144
112	Mesitylboron-Substituted Ladder-Type Pentaphenylenes: Charge-Transfer, Electronic Communication, and Sensing Properties. <i>Journal of the American Chemical Society</i> , 2008, 130, 12477-12484.	6.6	142
113	Polycyclic aromatic hydrocarbons in the graphene era. <i>Science China Chemistry</i> , 2019, 62, 1099-1144.	4.2	142
114	Suppressing Aggregation in a Large Polycyclic Aromatic Hydrocarbon. <i>Journal of the American Chemical Society</i> , 2006, 128, 1334-1339.	6.6	141
115	Pyrene as Chromophore and Electrophore: Encapsulation in a Rigid Polyphenylene Shell. <i>Chemistry - A European Journal</i> , 2006, 12, 6117-6128.	1.7	139
116	Bottom-Up Synthesis of Liquid-Phase-Processable Graphene Nanoribbons with Near-Infrared Absorption. <i>ACS Nano</i> , 2014, 8, 11622-11630.	7.3	138
117	From Dyestuff Chemistry to Cancer Theranostics: The Rise of Rylencarboximides. <i>Accounts of Chemical Research</i> , 2019, 52, 2266-2277.	7.6	137
118	On-Surface Growth Dynamics of Graphene Nanoribbons: The Role of Halogen Functionalization. <i>ACS Nano</i> , 2018, 12, 74-81.	7.3	135
119	Discotic liquid crystalline hexabenzocoronenes carrying chiral and racemic branched alkyl chains: supramolecular engineering and improved synthetic methods. <i>Tetrahedron</i> , 2001, 57, 3769-3783.	1.0	134
120	Synthesis and Controlled Self-Assembly of Covalently Linked Hexa-peri-hexabenzocoronene/Perylene Diimide Dyads as Models To Study Fundamental Energy and Electron Transfer Processes. <i>Journal of the American Chemical Society</i> , 2012, 134, 5876-5886.	6.6	134
121	Concise Synthesis of 3D-Extended Polyphenylene Cylinders. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 1525-1528.	7.2	134
122	Pyrrole-Fused Azacoronene Family: The Influence of Replacement with Dialkoxybenzenes on the Optical and Electronic Properties in Neutral and Oxidized States. <i>Journal of the American Chemical Society</i> , 2013, 135, 8031-8040.	6.6	133
123	Chemical Vapor Deposition of N-Doped Graphene and Carbon Films: The Role of Precursors and Gas Phase. <i>ACS Nano</i> , 2014, 8, 3337-3346.	7.3	133
124	Visualizing spatial and temporal heterogeneity of single molecule rotational diffusion in a glassy polymer by defocused wide-field imaging. <i>Polymer</i> , 2006, 47, 2511-2518.	1.8	130
125	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
126	From Branched Polyphenylenes to Graphite Ribbons. <i>Macromolecules</i> , 2003, 36, 7082-7089.	2.2	126

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127	Superphenalene-Based Columnar Liquid Crystals. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 755-758.	7.2	126
128	Triangle-Shaped Polycyclic Aromatic Hydrocarbons. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 3033-3036.	7.2	126
129	Synthetic Principles Directing Charge Transport in Low-Band-Gap Dithienosilole-Benzo-thiadiazole Copolymers. <i>Journal of the American Chemical Society</i> , 2012, 134, 8944-8957.	6.6	124
130	Synthesis of Stable Nanographenes with OBO-Doped Zigzag Edges Based on Tandem Demethylation-Electrophilic Borylation. <i>Journal of the American Chemical Society</i> , 2016, 138, 9021-9024.	6.6	123
131	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
132	Microstructure Evolution and Device Performance in Solution-Processed Polymeric Field-Effect Transistors: The Key Role of the First Monolayer. <i>Journal of the American Chemical Society</i> , 2012, 134, 4015-4018.	6.6	120
133	Amplification of Dissymmetry Factors in β -Extended [7]- and [9]Helicenes. <i>Journal of the American Chemical Society</i> , 2021, 143, 4661-4667.	6.6	119
134	Tailoring Bond Topologies in Open-Shell Graphene Nanostructures. <i>ACS Nano</i> , 2018, 12, 11917-11927.	7.3	118
135	Synthesis of Soluble Perylenebisimidine Derivatives. Novel Long-Wavelength Absorbing and Fluorescent Dyes. <i>Chemistry of Materials</i> , 1997, 9, 495-500.	3.2	117
136	Ultrafast Photoconductivity of Graphene Nanoribbons and Carbon Nanotubes. <i>Nano Letters</i> , 2013, 13, 5925-5930.	4.5	117
137	Quantum units from the topological engineering of molecular graphenoids. <i>Science</i> , 2019, 366, 1107-1110.	6.0	116
138	Relation between Supramolecular Order and Charge Carrier Mobility of Branched Alkyl Hexa-peri-hexabenzocoronenes. <i>Chemistry of Materials</i> , 2006, 18, 3634-3640.	3.2	115
139	Unexpected Phenyl Group Rearrangement during an Intramolecular Scholl Reaction Leading to an Alkoxy-Substituted Hexa-peri-hexabenzocoronene. <i>Organic Letters</i> , 2007, 9, 2485-2488.	2.4	115
140	Detection of Multiple Sclerosis from Exhaled Breath Using Bilayers of Polycyclic Aromatic Hydrocarbons and Single-Wall Carbon Nanotubes. <i>ACS Chemical Neuroscience</i> , 2011, 2, 687-693.	1.7	113
141	Dimensional Evolution of Polyphenylenes: Expanding in All Directions. <i>Chemical Reviews</i> , 2016, 116, 2103-2140.	23.0	113
142	β -Extended Pyrene-Fused Double [7]Carbohelicene as a Chiral Polycyclic Aromatic Hydrocarbon. <i>Journal of the American Chemical Society</i> , 2019, 141, 12797-12803.	6.6	113
143	Synthesis, Structure, and Chiroptical Properties of a Double [7]Heterohelicene. <i>Journal of the American Chemical Society</i> , 2016, 138, 12783-12786.	6.6	112
144	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

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145	Carbonization of Dislike Molecules in Porous Alumina Membranes: Toward Carbon Nanotubes with Controlled Graphene-Layer Orientation. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 2120-2123.	7.2	111
146	Core, Shell, and Surface-Optimized Dendrimers for Blue Light-Emitting Diodes. <i>Journal of the American Chemical Society</i> , 2011, 133, 1301-1303.	6.6	111
147	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
148	Bottom-Up Synthesis of Heteroatom-Doped Chiral Graphene Nanoribbons. <i>Journal of the American Chemical Society</i> , 2018, 140, 9104-9107.	6.6	110
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