

Klaus MÃ¼llen

List of Publications by Year in descending order

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556
papers

71,669
citations

587

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750

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575
all docs

575
docs citations

575
times ranked

48779
citing authors

#	ARTICLE	IF	CITATIONS
1	Excited states engineering enables efficient near-infrared lasing in nanographenes. <i>Materials Horizons</i> , 2022, 9, 393-402.	6.4	12
2	Reversing A<i>β</i> Fibrillation and Inhibiting A<i>β</i> Primary Neuronal Cell Toxicity Using Amphiphilic Polyphenylene Dendrons. <i>Advanced Healthcare Materials</i> , 2022, 11, e2101854.	3.9	8
3	Facilitating the acidic oxygen reduction of Feâ€“Nâ€“C catalysts by fluorine-doping. <i>Materials Horizons</i> , 2022, 9, 417-424.	6.4	39
4	Untying the Bundles of Solutionâ€“Synthesized Graphene Nanoribbons for Highly Capacitive Microâ€“Supercapacitors. <i>Advanced Functional Materials</i> , 2022, 32, 2109543.	7.8	13
5	NIR-triggered dual sensitization of nanoparticles for mild tumor phototherapy. <i>Nano Today</i> , 2022, 42, 101363.	6.2	15
6	Self-assembly and photoinduced fabrication of conductive nanographene wires on boron nitride. <i>Nature Communications</i> , 2022, 13, 442.	5.8	4
7	Tuning interfacial charge transfer in atomically precise nanographeneâ€“graphene heterostructures by engineering van der Waals interactions. <i>Journal of Chemical Physics</i> , 2022, 156, 074702.	1.2	5
8	Excitation localization in a trimeric perylenediimide macrocycle: Synthesis, theory, and single molecule spectroscopy. <i>Journal of Chemical Physics</i> , 2022, 156, 044304.	1.2	0
9	Electrochemical Deposition of a Singleâ€“Crystalline Nanorod Polycyclic Aromatic Hydrocarbon Film with Efficient Charge and Exciton Transport. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	3
10	Electrochemical Deposition of a Singleâ€“Crystalline Nanorod Polycyclic Aromatic Hydrocarbon Film with Efficient Charge and Exciton Transport. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	14
11	Band structure modulation by methoxy-functionalization of graphene nanoribbons. <i>Journal of Materials Chemistry C</i> , 2022, 10, 4173-4181.	2.7	5
12	Coveâ€“Edged Hexaâ€“peri</i>â€“hexabenoâ€“bisâ€“peri</i>â€“octacene: Molecular Conformations and Amplified Spontaneous Emission. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	8
13	Coveâ€“Edged Hexaâ€“peri</i>â€“hexabenoâ€“bisâ€“peri</i>â€“octacene: Molecular Conformations and Amplified Spontaneous Emission. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	22
14	On-surface polyarylene synthesis by cycloaromatization of isopropyl substituents. , 2022, 1, 289-296.		31
15	Synthesis of Giant Dendritic Polyphenylenes with 366â€“and 546 Carbon Atoms and Their Highâ€“vacuum Electrospray Deposition. <i>Chemistry - an Asian Journal</i> , 2022, 17, .	1.7	4
16	A Nanographeneâ€“Based Twoâ€“Dimensional Covalent Organic Framework as a Stable and Efficient Photocatalyst. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	38
17	A Nanographeneâ€“Based Twoâ€“Dimensional Covalent Organic Framework as a Stable and Efficient Photocatalyst. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	2
18	Substrate-Modulated Synthesis of Metalâ€“Organic Hybrids by Tunable Multiple Arylâ€“Metal Bonds. <i>Journal of the American Chemical Society</i> , 2022, 144, 8214-8222.	6.6	24

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19	Outstanding Charge Mobility by Band Transport in Two-Dimensional Semiconducting Covalent Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2022, 144, 7489-7496.	6.6	43
20	Crosslinking Super Yellow to produce super OLEDs: Crosslinking with azides enables improved performance. <i>Journal of Polymer Science</i> , 2022, 60, 1878-1886.	2.0	4
21	Graphene Nanoribbon Field-Effect Transistors with Top-Gate Polymer Dielectrics. <i>ACS Applied Electronic Materials</i> , 2022, 4, 2667-2671.	2.0	6
22	Growth Optimization and Device Integration of Narrow-Bandgap Graphene Nanoribbons. <i>Small</i> , 2022, 18, .	5.2	17
23	Nanographenes and Graphene Nanoribbons as Multitalents of Present and Future Materials Science. <i>Journal of the American Chemical Society</i> , 2022, 144, 11499-11524.	6.6	88
24	Compensation of Oxygen Doping in p-Type Organic Field-Effect Transistors Utilizing Immobilized n-Dopants. <i>Advanced Materials Technologies</i> , 2021, 6, 2000556.	3.0	5
25	Spiers Memorial Lecture : Carbon nanostructures by macromolecular design – from branched polyphenylenes to nanographenes and graphene nanoribbons. <i>Faraday Discussions</i> , 2021, 227, 8-45.	1.6	9
26	Functionalized Tetrapodal Diazatriptycenes for Electrostatic Dipole Engineering in n-Type Organic Thin Film Transistors. <i>Advanced Materials Technologies</i> , 2021, 6, 2000300.	3.0	5
27	Beyond p-Hexaphenylenes: Synthesis of Unsubstituted p-Nonaphenylene by a Precursor Protocol. <i>Chemistry - A European Journal</i> , 2021, 27, 281-288.	1.7	3
28	2D self-assembly and electronic characterization of oxygen-boron-oxygen-doped chiral graphene nanoribbons. <i>Chemical Communications</i> , 2021, 57, 6031-6034.	2.2	4
29	Photodynamics at the CdSe Quantum Dot-Perylene Diimide Interface: Unraveling the Excitation Energy and Electron Transfer Pathways. <i>Journal of Physical Chemistry C</i> , 2021, 125, 3277-3284.	1.5	7
30	Electrochemical Synthesis, Deposition, and Doping of Polycyclic Aromatic Hydrocarbon Films. <i>Journal of the American Chemical Society</i> , 2021, 143, 2682-2687.	6.6	30
31	Amplification of Dissymmetry Factors in -Extended [7]- and [9]Helicenes. <i>Journal of the American Chemical Society</i> , 2021, 143, 4661-4667.	6.6	119
32	On-Surface Synthesis of Dibenzohexaceno-hexacene and Dibenzopentaphenoheptaphene. <i>Bulletin of the Chemical Society of Japan</i> , 2021, 94, 997-999.	2.0	27
33	Revisiting Acepleiadylene: Two-Step Synthesis and -Extension toward Nonbenzenoid Nanographene. <i>Journal of the American Chemical Society</i> , 2021, 143, 5314-5318.	6.6	34
34	Synthesis of Nonplanar Graphene Nanoribbon with Fjord Edges. <i>Journal of the American Chemical Society</i> , 2021, 143, 5654-5658.	6.6	52
35	Comparative Study of Direct and Graphite-Mediated Oxidation of Large PAHs. <i>Journal of Physical Chemistry C</i> , 2021, 125, 8163-8176.	1.5	1
36	Dicyclopentaannulated Hexa-peri-hexabenzocoronenes with a Singlet Biradical Ground State. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 11300-11304.	7.2	18

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37	On-surface activation of benzylic C-H bonds for the synthesis of pentagon-fused graphene nanoribbons. <i>Nano Research</i> , 2021, 14, 4754-4759.	5.8	14
38	Graphene nanoribbons with mixed cove-cape-zigzag edge structure. <i>Carbon</i> , 2021, 175, 50-59.	5.4	20
39	Exploring Intramolecular Methyl-Methyl Coupling on a Metal Surface for Edge-Extended Graphene Nanoribbons. <i>Organic Materials</i> , 2021, 03, 128-133.	1.0	3
40	Dicyclopentaannulated Hexaperi-hexabenzocoronenes with a Singlet Biradical Ground State. <i>Angewandte Chemie</i> , 2021, 133, 11400-11404.	1.6	8
41	Polarity Matters: Dielectric Relaxation in All-cis-Multifluorinated Cycloalkanes. <i>Journal of Physical Chemistry B</i> , 2021, 125, 3700-3709.	1.2	6
42	Large magnetic exchange coupling in rhombus-shaped nanographenes with zigzag periphery. <i>Nature Chemistry</i> , 2021, 13, 581-586.	6.6	104
43	Raman spectroscopy of holey nanographene C_{216} . <i>Journal of Raman Spectroscopy</i> , 2021, 52, 2301-2316.	1.2	8
44	Fe ₂ Ni ₄ C Electrocatalysts with Densely Accessible Fe ₄ Sites for Efficient Oxygen Reduction Reaction. <i>Advanced Functional Materials</i> , 2021, 31, 2102420.	7.8	110
45	Detection and Stabilization of a Previously Unknown Two-Dimensional (Pseudo)polymorph using Lateral Nanoconfinement. <i>Journal of the American Chemical Society</i> , 2021, 143, 11080-11087.	6.6	13
46	A Highly Luminescent Nitrogen-Doped Nanographene as an Acid- and Metal-Sensitive Fluorophore for Optical Imaging. <i>Journal of the American Chemical Society</i> , 2021, 143, 10403-10412.	6.6	37
47	Benzo-fused Tri[8]annulenes as Molecular Models of Cubic Graphite. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 20220-20224.	7.2	12
48	Benzo-fused Tri[8]annulenes as Molecular Models of Cubic Graphite. <i>Angewandte Chemie</i> , 2021, 133, 20382-20386.	1.6	5
49	Evolution of the Topological Energy Band in Graphene Nanoribbons. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 8679-8684.	2.1	30
50	Kinetic Stabilization of Blue-Emissive Anthracenes: Phenylene Bridging Works Best. <i>Chemistry - A European Journal</i> , 2021, 27, 16606-16610.	1.7	8
51	Optimized graphene electrodes for contacting graphene nanoribbons. <i>Carbon</i> , 2021, 184, 331-339.	5.4	30
52	X-shaped thiadiazole-containing double [7]heterohelicene with strong chiroptical response and π -stacked homochiral assembly. <i>Chemical Communications</i> , 2021, 57, 5566-5569.	2.2	10
53	Solution-Processed Graphene-Nanographene van der Waals Heterostructures for Photodetectors with Efficient and Ultralong Charge Separation. <i>Journal of the American Chemical Society</i> , 2021, 143, 17109-17116.	6.6	19
54	Engineering Surface Amphiphilicity of Polymer Nanostructures. <i>Progress in Polymer Science</i> , 2021, , 101489.	11.8	0

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55	Stepwise Lateral Extension of Phenyl-Substituted Linear Polyphenylenes. <i>Macromolecular Chemistry and Physics</i> , 2020, 221, 1900374.	1.1	6
56	Nanographene: ultrastabile, schaltbare und helle Sonden für die hochauflösende Mikroskopie. <i>Angewandte Chemie</i> , 2020, 132, 504-510.	1.6	4
57	Conjugated polymers – Problems and promises. <i>Progress in Polymer Science</i> , 2020, 100, 101179.	11.8	101
58	Nanographenes: Ultrastable, Switchable, and Bright Probes for Super-Resolution Microscopy. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 496-502.	7.2	35
59	Optical Imaging and Spectroscopy of Atomically Precise Armchair Graphene Nanoribbons. <i>Nano Letters</i> , 2020, 20, 1124-1130.	4.5	21
60	Topological Defect-Induced Magnetism in a Nanographene. <i>Journal of the American Chemical Society</i> , 2020, 142, 1147-1152.	6.6	106
61	Doping free transfer of graphene using aqueous ammonia flow. <i>RSC Advances</i> , 2020, 10, 1127-1131.	1.7	7
62	Highly fluorescent free-standing films assembled from perylene-dimide microcrystals for boosting aniline sensing. <i>Journal of Materials Chemistry C</i> , 2020, 8, 1421-1426.	2.7	16
63	Tetrapodal Diazatriptycene Enforces Orthogonal Orientation in Self-Assembled Monolayers. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 6565-6572.	4.0	10
64	Topological frustration induces unconventional magnetism in a nanographene. <i>Nature Nanotechnology</i> , 2020, 15, 22-28.	15.6	227
65	Design Rules for Memories Based on Graphene Ferroelectric Field-Effect Transistors. <i>ACS Applied Electronic Materials</i> , 2020, 2, 2-8.	2.0	27
66	Bottom-Up, On-Surface-Synthesized Armchair Graphene Nanoribbons for Ultra-High-Power Micro-Supercapacitors. <i>Journal of the American Chemical Society</i> , 2020, 142, 17881-17886.	6.6	51
67	On-Surface Synthesis of Oligo(indenoindene). <i>Journal of the American Chemical Society</i> , 2020, 142, 12925-12929.	6.6	29
68	From Hexaphenylbenzene to 1,2,3,4,5,6-Hexacyclohexylcyclohexane. <i>Journal of the American Chemical Society</i> , 2020, 142, 12916-12920.	6.6	2
69	Multilayer stabilization for fabricating high-loading single-atom catalysts. <i>Nature Communications</i> , 2020, 11, 5892.	5.8	195
70	Furan-containing double tetraoxa[7]helicene and its radical cation. <i>Chemical Communications</i> , 2020, 56, 15181-15184.	2.2	24
71	Synthesis and assembly of extended quintulene. <i>Nature Communications</i> , 2020, 11, 3976.	5.8	28
72	Size-dependent electron transfer from atomically defined nanographenes to metal oxide nanoparticles. <i>Nanoscale</i> , 2020, 12, 16046-16052.	2.8	6

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73	Coupled Spin States in Armchair Graphene Nanoribbons with Asymmetric Zigzag Edge Extensions. Nano Letters, 2020, 20, 6429-6436.	4.5	64
74	Hexa-peri-benzocoronene with two extra K-regions in an ortho-configuration. Chemical Science, 2020, 11, 12816-12821.	3.7	10
75	Vibrational signature of the graphene nanoribbon edge structure from high-resolution electron energy-loss spectroscopy. Nanoscale, 2020, 12, 19681-19688.	2.8	3
76	On-Surface Synthesis of a Chiral Graphene Nanoribbon with Mixed Edge Structure. Chemistry - an Asian Journal, 2020, 15, 3807-3811.	1.7	17
77	Spatially and Temporally Resolved Heterogeneities in a Miscible Polymer Blend. ACS Omega, 2020, 5, 23931-23939.	1.6	4
78	Graphene Nanoribbons: On-Surface Synthesis and Integration into Electronic Devices. Advanced Materials, 2020, 32, e2001893.	11.1	156
79	Negatively Curved Nanographene with Heptagonal and [5]Helicene Units. Journal of the American Chemical Society, 2020, 142, 14814-14819.	6.6	81
80	Enzyme-Triggered Disassembly of Perylene Monoimide-Based Nanoclusters for Activatable and Deep Photodynamic Therapy. Angewandte Chemie - International Edition, 2020, 59, 14014-14018.	7.2	89
81	On-Surface Synthesis of Unsaturated Carbon Nanostructures with Regularly Fused Pentagon-Heptagon Pairs. Journal of the American Chemical Society, 2020, 142, 10291-10296.	6.6	53
82	Photomodulation of Charge Transport in All-Semiconducting 2D-1D van der Waals Heterostructures with Suppressed Persistent Photoconductivity Effect. Advanced Materials, 2020, 32, e2001268.	11.1	20
83	Enzyme-Triggered Disassembly of Perylene Monoimide-Based Nanoclusters for Activatable and Deep Photodynamic Therapy. Angewandte Chemie, 2020, 132, 14118-14122.	1.6	24
84	Designing Multi-Level Resistance States in Graphene Ferroelectric Transistors. Advanced Functional Materials, 2020, 30, 2003085.	7.8	11
85	Compressing Double [7]Helicene by Successive Charging with Electrons. Angewandte Chemie - International Edition, 2020, 59, 15923-15927.	7.2	21
86	Rigidification of Poly(<i>p</i> -phenylene)s through <i>ortho</i> -Phenyl Substitution. Macromolecules, 2020, 53, 5756-5762.	2.2	7
87	Chrysene-Based Blue Emitters. Chemistry - A European Journal, 2020, 26, 15089-15093.	1.7	5
88	Oligophenyls with Multiple Disulfide Bridges as Higher Homologues of Dibenzo[<i>c</i> , <i>e</i>][1,2]dithiin: Synthesis and Application in Lithium-Ion Batteries. Chemistry - A European Journal, 2020, 26, 8007-8011.	1.7	7
89	Syntheses and Characterizations of Functional Polycyclic Aromatic Hydrocarbons and Graphene Nanoribbons. Bulletin of the Chemical Society of Japan, 2020, 93, 490-506.	2.0	62
90	Oligomerization of Dehydrogenated Polycyclic Aromatic Hydrocarbons on Highly Oriented Pyrolytic Graphite. Journal of Physical Chemistry C, 2020, 124, 8236-8246.	1.5	4

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91	Controlled Quantum Dot Formation in Atomically Engineered Graphene Nanoribbon Field-Effect Transistors. ACS Nano, 2020, 14, 5754-5762.	7.3	46
92	Amphiphilic dendrimers control protein binding and corona formation on liposome nanocarriers. Chemical Communications, 2020, 56, 8663-8666.	2.2	13
93	Compressing Double [7]Helicene by Successive Charging with Electrons. Angewandte Chemie, 2020, 132, 16057-16061.	1.6	6
94	Large-Cavity Coronoids with Different Inner and Outer Edge Structures. Journal of the American Chemical Society, 2020, 142, 12046-12050.	6.6	38
95	Proton-Gated Ring-Closure of a Negative Photochromic Azulene-Based Diarylethene. Angewandte Chemie - International Edition, 2020, 59, 18532-18536.	7.2	35
96	Charge transport mechanism in networks of armchair graphene nanoribbons. Scientific Reports, 2020, 10, 1988.	1.6	41
97	Hysteresis in graphene nanoribbon field-effect devices. Physical Chemistry Chemical Physics, 2020, 22, 5667-5672.	1.3	9
98	Giant thermal expansion of a two-dimensional supramolecular network triggered by alkyl chain motion. Communications Materials, 2020, 1, 8.	2.9	20
99	Amphiphilic Polyphenylene Dendron Conjugates for Surface Remodeling of Adenovirus...5. Angewandte Chemie, 2020, 132, 5761-5769.	1.6	2
100	Design and construction of few-layer graphene cathode for ultrafast and high-capacity aluminum-ion batteries. Energy Storage Materials, 2020, 27, 396-404.	9.5	42
101	On-Surface Dehydro-Diels-Alder Reaction of Dibromo-bis(phenylethynyl)benzene. Journal of the American Chemical Society, 2020, 142, 1721-1725.	6.6	15
102	Utilizing Diels-Alder click-chemistry to functionalize the organic-organic interface of semiconducting polymers. Journal of Materials Chemistry C, 2020, 8, 3302-3307.	2.7	3
103	Amphiphilic Polyphenylene Dendron Conjugates for Surface Remodeling of Adenovirus...5. Angewandte Chemie - International Edition, 2020, 59, 5712-5720.	7.2	20
104	On-Surface Synthesis of Cumulene-Containing Polymers via Two-Step Dehalogenative Homocoupling of Dibromomethylene-Functionalized Tribenzoazulene. Angewandte Chemie, 2020, 132, 13383-13389.	1.6	15
105	On-Surface Synthesis of Cumulene-Containing Polymers via Two-Step Dehalogenative Homocoupling of Dibromomethylene-Functionalized Tribenzoazulene. Angewandte Chemie - International Edition, 2020, 59, 13281-13287.	7.2	23
106	Transformation from helical to layered supramolecular organization of asymmetric perylene diimides via multiple intermolecular hydrogen bonding. Chemical Science, 2020, 11, 4960-4968.	3.7	11
107	Multifunctional Chiral Conjugated Polymer Microspheres: Production and Confinement of NLO signal, Detection of Circularly Polarized Light, and Display of Laser-Triggered NLO Emission Shifts. Advanced Optical Materials, 2020, 8, 2000431.	3.6	21
108	Charging of Fused Double [5]Helicene with Electrons. Angewandte Chemie - International Edition, 2019, 58, 14969-14973.	7.2	38

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109	Direct Metal-Free Chemical Vapor Deposition of Graphene Films on Insulating Substrates for Micro-Supercapacitors with High Volumetric Capacitance. <i>Batteries and Supercaps</i> , 2019, 2, 929-933.	2.4	7
110	Facile Protocol for Alkaline Electrolyte Purification and Its Influence on a Ni-Co Oxide Catalyst for the Oxygen Evolution Reaction. <i>ACS Catalysis</i> , 2019, 9, 8165-8170.	5.5	59
111	From Dyestuff Chemistry to Cancer Theranostics: The Rise of Rylencarboximides. <i>Accounts of Chemical Research</i> , 2019, 52, 2266-2277.	7.6	137
112	Patchy Amphiphilic Dendrimers Bind Adenovirus and Control Its Host Interactions and in Vivo Distribution. <i>ACS Nano</i> , 2019, 13, 8749-8759.	7.3	22
113	Synthetic Engineering of Graphene Nanoribbons with Excellent Liquid-Phase Processability. <i>Trends in Chemistry</i> , 2019, 1, 549-558.	4.4	44
114	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
115	On-Surface Synthesis of Antiaromatic and Open-Shell Indeno[2,1- <i>b</i>]fluorene Polymers and Their Lateral Fusion into Porous Ribbons. <i>Journal of the American Chemical Society</i> , 2019, 141, 12346-12354.	6.6	71
116	Band Gap of Atomically Precise Graphene Nanoribbons as a Function of Ribbon Length and Termination. <i>ChemPhysChem</i> , 2019, 20, 2348-2353.	1.0	17
117	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
118	Multiwavelength Raman spectroscopy of ultranarrow nanoribbons made by solution-mediated bottom-up approach. <i>Physical Review B</i> , 2019, 100, .	1.1	8
119	Color Sensitive Response of Graphene/Graphene Quantum Dot Phototransistors. <i>Journal of Physical Chemistry C</i> , 2019, 123, 26490-26497.	1.5	10
120	Charging of Fused Double [5]Helicene with Electrons. <i>Angewandte Chemie</i> , 2019, 131, 15111-15115.	1.6	12
121	Optimized Substrates and Measurement Approaches for Raman Spectroscopy of Graphene Nanoribbons. <i>Physica Status Solidi (B): Basic Research</i> , 2019, 256, 1900343.	0.7	26
122	Diketopyrrolopyrrole-Polymer Meets Thiol-Ene Click Chemistry: A Cross-Linked Acceptor for Thermally Stable Near-Infrared Photodetectors. <i>Chemistry of Materials</i> , 2019, 31, 7657-7665.	3.2	20
123	Synthesis and helical supramolecular organization of discotic liquid crystalline dibenzo[<i>h</i> , <i>s</i>]ovalene. <i>Journal of Materials Chemistry C</i> , 2019, 7, 12898-12906.	2.7	8
124	Heteroatom-Doped Nanographenes with Structural Precision. <i>Accounts of Chemical Research</i> , 2019, 52, 2491-2505.	7.6	239
125	Surface-Specific Spectroscopy of Water at a Potentiostatically Controlled Supported Graphene Monolayer. <i>Journal of Physical Chemistry C</i> , 2019, 123, 24031-24038.	1.5	29
126	A Universal Length-Dependent Vibrational Mode in Graphene Nanoribbons. <i>ACS Nano</i> , 2019, 13, 13083-13091.	7.3	36

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127	Dibenzo[<i>hi</i> , <i>st</i>]ovalene as Highly Luminescent Nanographene: Efficient Synthesis via Photochemical Cyclodehydroiodination, Optoelectronic Properties, and Single-Molecule Spectroscopy. <i>Journal of the American Chemical Society</i> , 2019, 141, 16439-16449.	6.6	39
128	Structure-dependent electrical properties of graphene nanoribbon devices with graphene electrodes. <i>Carbon</i> , 2019, 146, 36-43.	5.4	70
129	Solution and on-surface synthesis of structurally defined graphene nanoribbons as a new family of semiconductors. <i>Chemical Science</i> , 2019, 10, 964-975.	3.7	104
130	Polycyclic aromatic hydrocarbons in the graphene era. <i>Science China Chemistry</i> , 2019, 62, 1099-1144.	4.2	142
131	Direct and Energy-Transfer-Mediated Charge-Transfer State Formation and Recombination in Triangulene-Spacer-Perylenediimide Multichromophores: Lessons for Photovoltaic Applications. <i>Journal of Physical Chemistry C</i> , 2019, 123, 16602-16613.	1.5	11
132	Synthesis and Characterization of π -Extended Triangulene. <i>Journal of the American Chemical Society</i> , 2019, 141, 10621-10625.	6.6	165
133	Photomodulation of Two-Dimensional Self-Assembly of Azobenzene- <i>Hexaperi</i> -hexabenzocoronene Azobenzene Triads. <i>Chemistry of Materials</i> , 2019, 31, 6979-6985.	3.2	18
134	On-Surface Synthesis and Characterization of Acene-Based Nanoribbons Incorporating Four-Membered Rings. <i>Chemistry - A European Journal</i> , 2019, 25, 12074-12082.	1.7	38
135	Small Change, Big Impact: The Shape of Precursor Polymers Governs Poly- <i>p</i> -phenylene Synthesis. <i>Macromolecules</i> , 2019, 52, 4458-4463.	2.2	10
136	Overcoming Steric Hindrance in Aryl-Aryl Homocoupling via On-Surface Copolymerization. <i>ChemPhysChem</i> , 2019, 20, 2360-2366.	1.0	14
137	n-Type Doping of Organic Semiconductors: Immobilization via Covalent Anchoring. <i>Chemistry of Materials</i> , 2019, 31, 4213-4221.	3.2	25
138	On-Surface Synthesis of a Nonplanar Porous Nanographene. <i>Journal of the American Chemical Society</i> , 2019, 141, 7726-7730.	6.6	61
139	Pristine Poly(<i>para</i> -phenylene): Relating Semiconducting Behavior to Kinetics of Precursor Conversion. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 19481-19488.	4.0	9
140	Graphene nanoribbons on hexagonal boron nitride: Deposition and transport characterization. <i>Applied Physics Letters</i> , 2019, 114, 173101.	1.5	6
141	Green-Light-Triggered Phase Transition of Azobenzene Derivatives toward Reversible Adhesives. <i>Journal of the American Chemical Society</i> , 2019, 141, 7385-7390.	6.6	106
142	Benzo-Fused Periacenes or Double Helicenes? Different Cyclodehydrogenation Pathways on Surface and in Solution. <i>Journal of the American Chemical Society</i> , 2019, 141, 7399-7406.	6.6	49
143	Surface-Synthesized Graphene Nanoribbons for Room Temperature Switching Devices: Substrate Transfer and <i>ex Situ</i> Characterization. <i>ACS Applied Nano Materials</i> , 2019, 2, 2184-2192.	2.4	75
144	Chemisorption of Atomically Precise 42-Carbon Graphene Quantum Dots on Metal Oxide Films Greatly Accelerates Interfacial Electron Transfer. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 1431-1436.	2.1	9

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145	Regioselective Hydrogenation of a 60-Carbon Nanographene Molecule toward a Circumbiphenyl Core. <i>Journal of the American Chemical Society</i> , 2019, 141, 4230-4234.	6.6	9
146	Chemical Approaches to Carbon-Based Metal-Free Catalysts. <i>Advanced Materials</i> , 2019, 31, e1804863.	11.1	90
147	Oligofluorene with multiple spiro-connections: its and their use in blue and white OLEDs. <i>New Journal of Chemistry</i> , 2019, 43, 3788-3792.	1.4	9
148	Graphene Nanoribbons Derived from Zigzag Edge-Encased Poly(<i>para</i> -2,9-dibenzo[<i>bc</i>], <i>kl</i>]corononylene) Polymer Chains. <i>Journal of the American Chemical Society</i> , 2019, 141, 2843-2846.	6.6	40
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