

Xinliang Feng

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.

685
papers

75,552
citations

139
h-index

255
g-index

743
ext. papers

86,414
ext. citations

13.1
avg, IF

8.43
L-index

#	Paper	IF	Citations
685	Atomically precise bottom-up fabrication of graphene nanoribbons. <i>Nature</i> , 2010 , 466, 470-3	50.4	2652
684	Science and technology roadmap for graphene, related two-dimensional crystals, and hybrid systems. <i>Nanoscale</i> , 2015 , 7, 4598-810	7.7	2015
683	3D nitrogen-doped graphene aerogel-supported Fe ₃ O ₄ nanoparticles as efficient electrocatalysts for the oxygen reduction reaction. <i>Journal of the American Chemical Society</i> , 2012 , 134, 9082-5	16.4	1833
682	Three-dimensional nitrogen and boron co-doped graphene for high-performance all-solid-state supercapacitors. <i>Advanced Materials</i> , 2012 , 24, 5130-5	24	1164
681	Nitrogen-doped ordered mesoporous graphitic arrays with high electrocatalytic activity for oxygen reduction. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 2565-9	16.4	1134
680	Efficient Synthesis of Heteroatom (N or S)-Doped Graphene Based on Ultrathin Graphene Oxide-Porous Silica Sheets for Oxygen Reduction Reactions. <i>Advanced Functional Materials</i> , 2012 , 22, 3634-3640	15.6	1071
679	Mesoporous metal-nitrogen-doped carbon electrocatalysts for highly efficient oxygen reduction reaction. <i>Journal of the American Chemical Society</i> , 2013 , 135, 16002-5	16.4	984
678	Exfoliation of graphite into graphene in aqueous solutions of inorganic salts. <i>Journal of the American Chemical Society</i> , 2014 , 136, 6083-91	16.4	968
677	Graphene-based carbon nitride nanosheets as efficient metal-free electrocatalysts for oxygen reduction reactions. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 5339-43	16.4	949
676	Graphene-based in-plane micro-supercapacitors with high power and energy densities. <i>Nature Communications</i> , 2013 , 4, 2487	17.4	948
675	Fabrication of graphene-encapsulated oxide nanoparticles: towards high-performance anode materials for lithium storage. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 8408-11	16.4	948
674	Three-dimensional graphene-based macro- and mesoporous frameworks for high-performance electrochemical capacitive energy storage. <i>Journal of the American Chemical Society</i> , 2012 , 134, 19532-5	16.4	934
673	New advances in nanographene chemistry. <i>Chemical Society Reviews</i> , 2015 , 44, 6616-43	58.5	916
672	Interface Engineering of MoS ₂ /Ni ₃ S ₂ Heterostructures for Highly Enhanced Electrochemical Overall-Water-Splitting Activity. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 6702-7	16.4	896
671	On-surface synthesis of graphene nanoribbons with zigzag edge topology. <i>Nature</i> , 2016 , 531, 489-92	50.4	859
670	Hierarchically porous carbons with optimized nitrogen doping as highly active electrocatalysts for oxygen reduction. <i>Nature Communications</i> , 2014 , 5, 4973	17.4	808
669	Crumpled nitrogen-doped graphene nanosheets with ultrahigh pore volume for high-performance supercapacitor. <i>Advanced Materials</i> , 2012 , 24, 5610-6	24	801

668	Bottom-up fabrication of photoluminescent graphene quantum dots with uniform morphology. <i>Journal of the American Chemical Society</i> , 2011 , 133, 15221-3	16.4	700
667	Composites of Graphene with Large Aromatic Molecules. <i>Advanced Materials</i> , 2009 , 21, 3191-3195	24	677
666	3D graphene foams cross-linked with pre-encapsulated Fe ₃ O ₄ nanospheres for enhanced lithium storage. <i>Advanced Materials</i> , 2013 , 25, 2909-14	24	665
665	Vertically oriented cobalt selenide/NiFe layered-double-hydroxide nanosheets supported on exfoliated graphene foil: an efficient 3D electrode for overall water splitting. <i>Energy and Environmental Science</i> , 2016 , 9, 478-483	35.4	646
664	From nanographene and graphene nanoribbons to graphene sheets: chemical synthesis. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 7640-54	16.4	614
663	Graphene as transparent electrode material for organic electronics. <i>Advanced Materials</i> , 2011 , 23, 2779-95	24	612
662	Efficient hydrogen production on MoNi electrocatalysts with fast water dissociation kinetics. <i>Nature Communications</i> , 2017 , 8, 15437	17.4	583
661	Nitrogen-doped graphene and its iron-based composite as efficient electrocatalysts for oxygen reduction reaction. <i>ACS Nano</i> , 2012 , 6, 9541-50	16.7	578
660	Energy storage: The future enabled by nanomaterials. <i>Science</i> , 2019 , 366,	33.3	564
659	Dispersion of Graphene Sheets in Organic Solvent Supported by Ionic Interactions. <i>Advanced Materials</i> , 2009 , 21, 1679-1683	24	559
658	Porous graphenes: two-dimensional polymer synthesis with atomic precision. <i>Chemical Communications</i> , 2009 , 6919-21	5.8	550
657	Porous graphene materials for advanced electrochemical energy storage and conversion devices. <i>Advanced Materials</i> , 2014 , 26, 849-64	24	545
656	Towards high charge-carrier mobilities by rational design of the shape and periphery of discotics. <i>Nature Materials</i> , 2009 , 8, 421-6	27	508
655	2D sandwich-like sheets of iron oxide grown on graphene as high energy anode material for supercapacitors. <i>Advanced Materials</i> , 2011 , 23, 5574-80	24	489
654	Catalyst-free preparation of melamine-based microporous polymer networks through Schiff base chemistry. <i>Journal of the American Chemical Society</i> , 2009 , 131, 7216-7	16.4	475
653	Sandwich-like, graphene-based titania nanosheets with high surface area for fast lithium storage. <i>Advanced Materials</i> , 2011 , 23, 3575-9	24	474
652	Molecular metal-N _x centres in porous carbon for electrocatalytic hydrogen evolution. <i>Nature Communications</i> , 2015 , 6, 7992	17.4	467
651	Nitrogen-enriched core-shell structured Fe/Fe(3)C-C nanorods as advanced electrocatalysts for oxygen reduction reaction. <i>Advanced Materials</i> , 2012 , 24, 1399-404	24	467

650	Nanographene-constructed hollow carbon spheres and their favorable electroactivity with respect to lithium storage. <i>Advanced Materials</i> , 2010 , 22, 838-42	24	445
649	Graphene nanoribbon heterojunctions. <i>Nature Nanotechnology</i> , 2014 , 9, 896-900	28.7	443
648	Electrochemically exfoliated graphene as solution-processable, highly conductive electrodes for organic electronics. <i>ACS Nano</i> , 2013 , 7, 3598-606	16.7	440
647	Graphene-based nanosheets with a sandwich structure. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 4795-9	16.4	434
646	Nitrogen-doped carbon nanosheets with size-defined mesopores as highly efficient metal-free catalyst for the oxygen reduction reaction. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 1570-4	16.4	428
645	Nitrogen-Doped Ordered Mesoporous Graphitic Arrays with High Electrocatalytic Activity for Oxygen Reduction. <i>Angewandte Chemie</i> , 2010 , 122, 2619-2623	3.6	426
644	Large-area, free-standing, two-dimensional supramolecular polymer single-layer sheets for highly efficient electrocatalytic hydrogen evolution. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 12058-63	16.4	400
643	Accelerated Hydrogen Evolution Kinetics on NiFe-Layered Double Hydroxide Electrocatalysts by Tailoring Water Dissociation Active Sites. <i>Advanced Materials</i> , 2018 , 30, 1706279	24	390
642	Engineering water dissociation sites in MoS ₂ nanosheets for accelerated electrocatalytic hydrogen production. <i>Energy and Environmental Science</i> , 2016 , 9, 2789-2793	35.4	386
641	Synthesis of structurally well-defined and liquid-phase-processable graphene nanoribbons. <i>Nature Chemistry</i> , 2014 , 6, 126-32	17.6	384
640	High-performance electrocatalysts for oxygen reduction derived from cobalt porphyrin-based conjugated mesoporous polymers. <i>Advanced Materials</i> , 2014 , 26, 1450-5	24	378
639	Two-dimensional carbon-coated graphene/metal oxide hybrids for enhanced lithium storage. <i>ACS Nano</i> , 2012 , 6, 8349-56	16.7	378
638	Two-dimensional soft nanomaterials: a fascinating world of materials. <i>Advanced Materials</i> , 2015 , 27, 4032-7	27	374
637	Low-temperature synthesis of nitrogen/sulfur co-doped three-dimensional graphene frameworks as efficient metal-free electrocatalyst for oxygen reduction reaction. <i>Carbon</i> , 2013 , 62, 296-301	10.4	374
636	Interface-Assisted Synthesis of 2D Materials: Trend and Challenges. <i>Chemical Reviews</i> , 2018 , 118, 6189-6235	28.5	358
635	Electronic structure of atomically precise graphene nanoribbons. <i>ACS Nano</i> , 2012 , 6, 6930-5	16.7	339
634	Patterned Graphene Electrodes from Solution-Processed Graphite Oxide Films for Organic Field-Effect Transistors. <i>Advanced Materials</i> , 2009 , 21, 3488-3491	24	323
633	Ultraflexible In-Plane Micro-Supercapacitors by Direct Printing of Solution-Processable Electrochemically Exfoliated Graphene. <i>Advanced Materials</i> , 2016 , 28, 2217-22	24	318

632	Interface Engineering of MoS ₂ /Ni ₃ S ₂ Heterostructures for Highly Enhanced Electrochemical Overall-Water-Splitting Activity. <i>Angewandte Chemie</i> , 2016 , 128, 6814-6819	3.6	315
631	Support and Interface Effects in Water-Splitting Electrocatalysts. <i>Advanced Materials</i> , 2019 , 31, e18081674	16.7	314
630	Nitrogen-Doped Porous Carbon Superstructures Derived from Hierarchical Assembly of Polyimide Nanosheets. <i>Advanced Materials</i> , 2016 , 28, 1981-7	24	313
629	Molybdenum Carbide-Embedded Nitrogen-Doped Porous Carbon Nanosheets as Electrocatalysts for Water Splitting in Alkaline Media. <i>ACS Nano</i> , 2017 , 11, 3933-3942	16.7	302
628	Efficient alkaline hydrogen evolution on atomically dispersed Ni _N x Species anchored porous carbon with embedded Ni nanoparticles by accelerating water dissociation kinetics. <i>Energy and Environmental Science</i> , 2019 , 12, 149-156	35.4	299
627	Flexible All-Solid-State Supercapacitors with High Volumetric Capacitances Boosted by Solution Processable MXene and Electrochemically Exfoliated Graphene. <i>Advanced Energy Materials</i> , 2017 , 7, 1601847	21.8	298
626	Atomically dispersed nickel-nitrogen-sulfur species anchored on porous carbon nanosheets for efficient water oxidation. <i>Nature Communications</i> , 2019 , 10, 1392	17.4	280
625	Layer-by-layer assembly and UV photoreduction of graphene-polyoxometalate composite films for electronics. <i>Journal of the American Chemical Society</i> , 2011 , 133, 9423-9	16.4	278
624	Fabrication of cobalt and cobalt oxide/graphene composites: towards high-performance anode materials for lithium ion batteries. <i>ChemSusChem</i> , 2010 , 3, 236-9	8.3	276
623	Self-assembled FeO ₄ /graphene aerogel with high lithium storage performance. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 3764-9	9.5	273
622	Two-dimensional materials for miniaturized energy storage devices: from individual devices to smart integrated systems. <i>Chemical Society Reviews</i> , 2018 , 47, 7426-7451	58.5	270
621	Nanocomposites and macroscopic materials: assembly of chemically modified graphene sheets. <i>Chemical Society Reviews</i> , 2012 , 41, 6160-77	58.5	262
620	Layer-by-layer assembled heteroatom-doped graphene films with ultrahigh volumetric capacitance and rate capability for micro-supercapacitors. <i>Advanced Materials</i> , 2014 , 26, 4552-8	24	260
619	Vertically oriented graphene bridging active-layer/current-collector interface for ultrahigh rate supercapacitors. <i>Advanced Materials</i> , 2013 , 25, 5799-806	24	252
618	Alternating Stacked Graphene-Conducting Polymer Compact Films with Ultrahigh Areal and Volumetric Capacitances for High-Energy Micro-Supercapacitors. <i>Advanced Materials</i> , 2015 , 27, 4054-61	24	249
617	Recent advances in graphene-based planar micro-supercapacitors for on-chip energy storage. <i>National Science Review</i> , 2014 , 1, 277-292	10.8	249
616	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	16.4	248
615	Large polycyclic aromatic hydrocarbons: Synthesis and discotic organization. <i>Pure and Applied Chemistry</i> , 2009 , 81, 2203-2224	2.1	244

614	Porous carbon nanosheets: Synthetic strategies and electrochemical energy related applications. <i>Nano Today</i> , 2019 , 24, 103-119	17.9	241
613	Organic Radical-Assisted Electrochemical Exfoliation for the Scalable Production of High-Quality Graphene. <i>Journal of the American Chemical Society</i> , 2015 , 137, 13927-32	16.4	239
612	Toward coe-edged low band gap graphene nanoribbons. <i>Journal of the American Chemical Society</i> , 2015 , 137, 6097-103	16.4	234
611	Vertically Aligned MoS ₂ Nanosheets Patterned on Electrochemically Exfoliated Graphene for High-Performance Lithium and Sodium Storage. <i>Advanced Energy Materials</i> , 2018 , 8, 1702254	21.8	234
610	Superlubricity of graphene nanoribbons on gold surfaces. <i>Science</i> , 2016 , 351, 957-61	33.3	227
609	Engineering of robust topological quantum phases in graphene nanoribbons. <i>Nature</i> , 2018 , 560, 209-213	30.4	227
608	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. <i>Advanced Materials</i> , 2009 , 21, 213-216	24	227
607	A two-dimensional conjugated polymer framework with fully sp ² -bonded carbon skeleton. <i>Polymer Chemistry</i> , 2016 , 7, 4176-4181	4.9	222
606	Integrated Hierarchical Cobalt Sulfide/Nickel Selenide Hybrid Nanosheets as an Efficient Three-dimensional Electrode for Electrochemical and Photoelectrochemical Water Splitting. <i>Nano Letters</i> , 2017 , 17, 4202-4209	11.5	216
605	High-mobility band-like charge transport in a semiconducting two-dimensional metal-organic framework. <i>Nature Materials</i> , 2018 , 17, 1027-1032	27	216
604	Transparent conductive electrodes from graphene/PEDOT:PSS hybrid inks for ultrathin organic photodetectors. <i>Advanced Materials</i> , 2015 , 27, 669-75	24	215
603	Strongly Coupled Ternary Hybrid Aerogels of N-deficient Porous Graphitic-C ₃ N ₄ Nanosheets/N-Doped Graphene/NiFe-Layered Double Hydroxide for Solar-Driven Photoelectrochemical Water Oxidation. <i>Nano Letters</i> , 2016 , 16, 2268-77	11.5	215
602	Short-channel field-effect transistors with 9-atom and 13-atom wide graphene nanoribbons. <i>Nature Communications</i> , 2017 , 8, 633	17.4	215
601	Graphene nanoribbons by chemists: nanometer-sized, soluble, and defect-free. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 2540-3	16.4	214
600	Wafer-sized multifunctional polyimine-based two-dimensional conjugated polymers with high mechanical stiffness. <i>Nature Communications</i> , 2016 , 7, 13461	17.4	213
599	Nitrogen-Doped Carbon Nanosheets with Size-Defined Mesopores as Highly Efficient Metal-Free Catalyst for the Oxygen Reduction Reaction. <i>Angewandte Chemie</i> , 2014 , 126, 1596-1600	3.6	208
598	Graphene coupled Schiff-base porous polymers: towards nitrogen-enriched porous carbon nanosheets with ultrahigh electrochemical capacity. <i>Advanced Materials</i> , 2014 , 26, 3081-6	24	207
597	Photocatalytic hydrogen evolution through fully conjugated poly(azomethine) networks. <i>Chemical Communications</i> , 2010 , 46, 8932-4	5.8	206

596	Scalable Fabrication and Integration of Graphene Microsupercapacitors through Full Inkjet Printing. <i>ACS Nano</i> , 2017 , 11, 8249-8256	16.7	204
595	New-Generation Graphene from Electrochemical Approaches: Production and Applications. <i>Advanced Materials</i> , 2016 , 28, 6213-21	24	203
594	Ultrathin Printable Graphene Supercapacitors with AC Line-Filtering Performance. <i>Advanced Materials</i> , 2015 , 27, 3669-75	24	197
593	On-Surface Synthesis and Characterization of 9-Atom Wide Armchair Graphene Nanoribbons. <i>ACS Nano</i> , 2017 , 11, 1380-1388	16.7	196
592	Mechanically strong MXene/Kevlar nanofiber composite membranes as high-performance nanofluidic osmotic power generators. <i>Nature Communications</i> , 2019 , 10, 2920	17.4	196
591	Fluoride-Free Synthesis of Two-Dimensional Titanium Carbide (MXene) Using A Binary Aqueous System. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 15491-15495	16.4	195
590	Two-dimensional sandwich-type, graphene-based conjugated microporous polymers. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 9668-72	16.4	194
589	Screen-Printable Thin Film Supercapacitor Device Utilizing Graphene/Polyaniline Inks. <i>Advanced Energy Materials</i> , 2013 , 3, 1035-1040	21.8	194
588	Ternary Porous Cobalt Phosphoselenide Nanosheets: An Efficient Electrocatalyst for Electrocatalytic and Photoelectrochemical Water Splitting. <i>Advanced Materials</i> , 2017 , 29, 1701589	24	192
587	Sulfur-Enriched Conjugated Polymer Nanosheet Derived Sulfur and Nitrogen co-Doped Porous Carbon Nanosheets as Electrocatalysts for Oxygen Reduction Reaction and Zinc-Air Battery. <i>Advanced Functional Materials</i> , 2016 , 26, 5893-5902	15.6	189
586	Electrochemically Scalable Production of Fluorine-Modified Graphene for Flexible and High-Energy Ionogel-Based Microsupercapacitors. <i>Journal of the American Chemical Society</i> , 2018 , 140, 8198-8205	16.4	188
585	Charge-Carrier Transporting Graphene-Type Molecules. <i>Chemistry of Materials</i> , 2011 , 23, 554-567	9.6	186
584	Synergetic Contribution of Boron and Fe _{Nx} Species in Porous Carbons toward Efficient Electrocatalysts for Oxygen Reduction Reaction. <i>ACS Energy Letters</i> , 2018 , 3, 252-260	20.1	184
583	Zinc-Mediated Template Synthesis of Fe-N-C Electrocatalysts with Densely Accessible Fe-N Active Sites for Efficient Oxygen Reduction. <i>Advanced Materials</i> , 2020 , 32, e1907399	24	183
582	Hybrid Silver Nanowire and Graphene-Based Solution-Processed Transparent Electrode for Organic Optoelectronics. <i>Advanced Functional Materials</i> , 2018 , 28, 1706010	15.6	183
581	Termini of bottom-up fabricated graphene nanoribbons. <i>Journal of the American Chemical Society</i> , 2013 , 135, 2060-3	16.4	182
580	Tuning the columnar organization of discotic polycyclic aromatic hydrocarbons. <i>Advanced Materials</i> , 2010 , 22, 3634-49	24	182
579	Production and processing of graphene and related materials. <i>2D Materials</i> , 2020 , 7, 022001	5.9	179

578	Conjugated microporous polymers with dimensionality-controlled heterostructures for green energy devices. <i>Advanced Materials</i> , 2015 , 27, 3789-96	24	176
577	Thiophene-based conjugated oligomers for organic solar cells. <i>Journal of Materials Chemistry</i> , 2011 , 21, 17590		172
576	Graphene-Based Carbon Nitride Nanosheets as Efficient Metal-Free Electrocatalysts for Oxygen Reduction Reactions. <i>Angewandte Chemie</i> , 2011 , 123, 5451-5455	3.6	172
575	Zn-Ion Hybrid Micro-Supercapacitors with Ultrahigh Areal Energy Density and Long-Term Durability. <i>Advanced Materials</i> , 2019 , 31, e1806005	24	168
574	Synergistic electroreduction of carbon dioxide to carbon monoxide on bimetallic layered conjugated metal-organic frameworks. <i>Nature Communications</i> , 2020 , 11, 1409	17.4	166
573	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	16.4	164
572	Structurally defined graphene nanoribbons with high lateral extension. <i>Journal of the American Chemical Society</i> , 2012 , 134, 18169-72	16.4	162
571	A Phthalocyanine-Based Layered Two-Dimensional Conjugated Metal-Organic Framework as a Highly Efficient Electrocatalyst for the Oxygen Reduction Reaction. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 10677-10682	16.4	160
570	Giant edge state splitting at atomically precise graphene zigzag edges. <i>Nature Communications</i> , 2016 , 7, 11507	17.4	160
569	Graphene: a two-dimensional platform for lithium storage. <i>Small</i> , 2013 , 9, 1173-87	11	160
568	Metal-Phosphide-Containing Porous Carbons Derived from an Ionic-Polymer Framework and Applied as Highly Efficient Electrochemical Catalysts for Water Splitting. <i>Advanced Functional Materials</i> , 2015 , 25, 3899-3906	15.6	159
567	Metal nitride/graphene nanohybrids: general synthesis and multifunctional titanium nitride/graphene electrocatalyst. <i>Advanced Materials</i> , 2011 , 23, 5445-50	24	159
566	Synthesis of Microporous Carbon Nanofibers and Nanotubes from Conjugated Polymer Network and Evaluation in Electrochemical Capacitor. <i>Advanced Functional Materials</i> , 2009 , 19, 2125-2129	15.6	159
565	Atomically precise edge chlorination of nanographenes and its application in graphene nanoribbons. <i>Nature Communications</i> , 2013 , 4, 2646	17.4	156
564	Immobilizing Molecular Metal Dithiolene-Diamine Complexes on 2D Metal-Organic Frameworks for Electrocatalytic H ₂ Production. <i>Chemistry - A European Journal</i> , 2017 , 23, 2255-2260	4.8	154
563	Polyoxometalate assisted photoreduction of graphene oxide and its nanocomposite formation. <i>Chemical Communications</i> , 2010 , 46, 6243-5	5.8	154
562	Highly reversible and ultra-fast lithium storage in mesoporous graphene-based TiO ₂ /SnO ₂ hybrid nanosheets. <i>Energy and Environmental Science</i> , 2013 , 6, 2447	35.4	153
561	A novel series of isoreticular metal organic frameworks: realizing metastable structures by liquid phase epitaxy. <i>Scientific Reports</i> , 2012 , 2, 921	4.9	153

560	Synthetic Two-Dimensional Materials: A New Paradigm of Membranes for Ultimate Separation. <i>Advanced Materials</i> , 2016 , 28, 6529-45	24	152
559	Patterning two-dimensional free-standing surfaces with mesoporous conducting polymers. <i>Nature Communications</i> , 2015 , 6, 8817	17.4	151
558	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	24	149
557	On-water surface synthesis of crystalline, few-layer two-dimensional polymers assisted by surfactant monolayers. <i>Nature Chemistry</i> , 2019 , 11, 994-1000	17.6	149
556	Use of organic precursors and graphenes in the controlled synthesis of carbon-containing nanomaterials for energy storage and conversion. <i>Accounts of Chemical Research</i> , 2013 , 46, 116-28	24.3	148
555	Controlled Synthesis of N-Doped Carbon Nanospheres with Tailored Mesopores through Self-Assembly of Colloidal Silica. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 15191-6	16.4	148
554	Strongly Coupled 3D Hybrids of N-doped Porous Carbon Nanosheet/CoNi Alloy-Encapsulated Carbon Nanotubes for Enhanced Electrocatalysis. <i>Small</i> , 2015 , 11, 5940-8	11	148
553	Intraribbon heterojunction formation in ultranarrow graphene nanoribbons. <i>ACS Nano</i> , 2012 , 6, 2020-5	16.7	147
552	Toward a molecular design of porous carbon materials. <i>Materials Today</i> , 2017 , 20, 592-610	21.8	146
551	Bioapplication of graphene oxide derivatives: drug/gene delivery, imaging, polymeric modification, toxicology, therapeutics and challenges. <i>RSC Advances</i> , 2015 , 5, 42141-42161	3.7	142
550	Photolithographic fabrication of high-performance all-solid-state graphene-based planar micro-supercapacitors with different interdigital fingers. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 8288	13	142
549	A coronene-based semiconducting two-dimensional metal-organic framework with ferromagnetic behavior. <i>Nature Communications</i> , 2018 , 9, 2637	17.4	140
548	Molecular clusters in two-dimensional surface-confined nanoporous molecular networks: structure, rigidity, and dynamics. <i>Journal of the American Chemical Society</i> , 2008 , 130, 7119-29	16.4	140
547	Free-Standing Monolayer Two-Dimensional Supramolecular Organic Framework with Good Internal Order. <i>Journal of the American Chemical Society</i> , 2015 , 137, 14525-32	16.4	139
546	Efficient Electrochemical and Photoelectrochemical Water Splitting by a 3D Nanostructured Carbon Supported on Flexible Exfoliated Graphene Foil. <i>Advanced Materials</i> , 2017 , 29, 1604480	24	139
545	Construction of two-dimensional MoS ₂ /CdS p-n nanohybrids for highly efficient photocatalytic hydrogen evolution. <i>Chemistry - A European Journal</i> , 2014 , 20, 10632-5	4.8	138
544	Direct access to metal or metal oxide nanocrystals integrated with one-dimensional nanoporous carbons for electrochemical energy storage. <i>Journal of the American Chemical Society</i> , 2010 , 132, 15030-7	16.4	136
543	Benzo-Fused Double [7]Carbohelicene: Synthesis, Structures, and Physicochemical Properties. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 3374-3378	16.4	135

542	Die chemische Synthese von Nanographen, Graphen-Nanobändern und Graphen-Schichten. <i>Angewandte Chemie</i> , 2012 , 124, 7758-7773	3.6	130
541	Bottom-up synthesis of chemically precise graphene nanoribbons. <i>Chemical Record</i> , 2015 , 15, 295-309	6.6	128
540	Compact coupled graphene and porous polyaryltriazine-derived frameworks as high performance cathodes for lithium-ion batteries. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 1812-6	16.4	125
539	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, 5876-86	16.4	124
538	Stimulus-Responsive Micro-Supercapacitors with Ultrahigh Energy Density and Reversible Electrochromic Window. <i>Advanced Materials</i> , 2017 , 29, 1604491	24	122
537	Bottom-up synthesis of liquid-phase-processable graphene nanoribbons with near-infrared absorption. <i>ACS Nano</i> , 2014 , 8, 11622-30	16.7	122
536	Graphene-based porous silica sheets impregnated with polyethyleneimine for superior CO ₂ capture. <i>Advanced Materials</i> , 2013 , 25, 2130-4	24	122
535	Exciton-dominated optical response of ultra-narrow graphene nanoribbons. <i>Nature Communications</i> , 2014 , 5, 4253	17.4	121
534	Topological frustration induces unconventional magnetism in a nanographene. <i>Nature Nanotechnology</i> , 2020 , 15, 22-28	28.7	121
533	Dual-Template Synthesis of 2D Mesoporous Polypyrrole Nanosheets with Controlled Pore Size. <i>Advanced Materials</i> , 2016 , 28, 8365-8370	24	119
532	Polyaniline nanosheet derived B/N co-doped carbon nanosheets as efficient metal-free catalysts for oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 7742	13	118
531	Triangle-shaped polycyclic aromatic hydrocarbons. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 3033-6	16.4	116
530	Atomically Defined Undercoordinated Active Sites for Highly Efficient CO ₂ Electroreduction. <i>Advanced Functional Materials</i> , 2020 , 30, 1907658	15.6	115
529	Hierarchical Transition-Metal Dichalcogenide Nanosheets for Enhanced Electrocatalytic Hydrogen Evolution. <i>Advanced Materials</i> , 2015 , 27, 7426-31	24	113
528	Porous iron oxide ribbons grown on graphene for high-performance lithium storage. <i>Scientific Reports</i> , 2012 , 2, 427	4.9	112
527	Graphenylene, a unique two-dimensional carbon network with nondelocalized cyclohexatriene units. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 38-41	7.1	111
526	Two-Dimensional Core-Shell Porous Hybrids as Highly Efficient Catalysts for the Oxygen Reduction Reaction. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 6858-63	16.4	111
525	Coordination Polymer Framework Based On-Chip Micro-Supercapacitors with AC Line-Filtering Performance. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 3920-3924	16.4	110

524	Ultrafast Delamination of Graphite into High-Quality Graphene Using Alternating Currents. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 6669-6675	16.4	110
523	Identification of Catalytic Sites for Oxygen Reduction in Metal/Nitrogen-Doped Carbons with Encapsulated Metal Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 1627-1633	16.4	110
522	Bioinspired wafer-scale production of highly stretchable carbon films for transparent conductive electrodes. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 5535-8	16.4	108
521	Unveiling Electronic Properties in Metal-Phthalocyanine-Based Pyrazine-Linked Conjugated Two-Dimensional Covalent Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2019 , 141, 16810-16816	16.4	107
520	Self-Assembling Thiophene Dendrimers with a Hexa-peri-hexabenzocoronene Core: Synthesis, Characterization and Performance in Bulk Heterojunction Solar Cells. <i>Chemistry of Materials</i> , 2010 , 22, 457-466	9.6	106
519	Polyaniline-coupled multifunctional 2D metal oxide/hydroxide graphene nanohybrids. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 12105-9	16.4	105
518	A Crystalline, 2D Polyarylimide Cathode for Ultrastable and Ultrafast Li Storage. <i>Advanced Materials</i> , 2019 , 31, e1901478	24	103
517	Ladder-type BN-embedded heteroacenes with blue emission. <i>Organic Letters</i> , 2013 , 15, 5714-7	6.2	103
516	Electrochemical Functionalization of Graphene at the Nanoscale with Self-Assembling Diazonium Salts. <i>ACS Nano</i> , 2016 , 10, 7125-34	16.7	102
515	Carbon-Rich Nanomaterials: Fascinating Hydrogen and Oxygen Electrocatalysts. <i>Advanced Materials</i> , 2018 , 30, e1800528	24	102
514	Controlled self-assembly of C ₃ -symmetric hexa-peri-hexabenzocoronenes with alternating hydrophilic and hydrophobic substituents in solution, in the bulk, and on a surface. <i>Journal of the American Chemical Society</i> , 2009 , 131, 4439-48	16.4	101
513	Thermodynamic picture of ultrafast charge transport in graphene. <i>Nature Communications</i> , 2015 , 6, 7655	17.4	100
512	Exfoliation of graphene via wet chemical routes. <i>Synthetic Metals</i> , 2015 , 210, 123-132	3.6	100
511	Solution Processable Fluorenyl Hexa-peri-hexabenzocoronenes in Organic Field-Effect Transistors and Solar Cells. <i>Advanced Functional Materials</i> , 2010 , 20, 927-938	15.6	100
510	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	16.4	99
509	Ultrafast photoconductivity of graphene nanoribbons and carbon nanotubes. <i>Nano Letters</i> , 2013 , 13, 5925-30	11.5	98
508	Three-dimensionally arranged cyclic p-hexaphenylbenzene: toward a bottom-up synthesis of size-defined carbon nanotubes. <i>Chemistry - A European Journal</i> , 2012 , 18, 16621-5	4.8	98
507	Cyclotrimerization of arylalkynes on Au(111). <i>Chemical Communications</i> , 2014 , 50, 11200-3	5.8	96

- 506 Epitaxial growth of stacked perfluoropentacene on graphene-coated quartz. *ACS Nano*, **2012**, 6, 10874-88.7 96
- 505 Detection of multiple sclerosis from exhaled breath using bilayers of polycyclic aromatic hydrocarbons and single-wall carbon nanotubes. *ACS Chemical Neuroscience*, **2011**, 2, 687-93 5.7 96
- 504 2D Porous Carbons prepared from Layered Organic-Inorganic Hybrids and their Use as Oxygen-Reduction Electrocatalysts. *Advanced Materials*, **2017**, 29, 1700707 24 95
- 503 Fabrication of Graphene-Encapsulated Oxide Nanoparticles: Towards High-Performance Anode Materials for Lithium Storage. *Angewandte Chemie*, **2010**, 122, 8586-8589 3.6 95
- 502 Synthesis, Structure, and Chiroptical Properties of a Double [7]Heterohelicene. *Journal of the American Chemical Society*, **2016**, 138, 12783-12786 16.4 95
- 501 Hexa-peri-hexabenzocoronenes by efficient oxidative cyclodehydrogenation: the role of the oligophenylene precursors. *Organic Letters*, **2006**, 8, 1145-8 6.2 94
- 500 Electronic Devices Using Open Framework Materials. *Chemical Reviews*, **2020**, 120, 8581-8640 68.1 94
- 499 Multilayer stabilization for fabricating high-loading single-atom catalysts. *Nature Communications*, **2020**, 11, 5892 17.4 94
- 498 Synthesis of Stable Nanographenes with OBO-Doped Zigzag Edges Based on Tandem Demethylation-Electrophilic Borylation. *Journal of the American Chemical Society*, **2016**, 138, 9021-4 16.4 94
- 497 Fluoride-Free Synthesis of Two-Dimensional Titanium Carbide (MXene) Using A Binary Aqueous System. *Angewandte Chemie*, **2018**, 130, 15717-15721 3.6 93
- 496 B2N2-Dibenzo[a,e]pentalenes: Effect of the BN Orientation Pattern on Antiaromaticity and Optoelectronic Properties. *Journal of the American Chemical Society*, **2015**, 137, 7668-71 16.4 92
- 495 Quantitative Control of Pore Size of Mesoporous Carbon Nanospheres through the Self-Assembly of Diblock Copolymer Micelles in Solution. *Small*, **2016**, 12, 3155-63 11 92
- 494 Thin-Film Electrode-Based Supercapacitors. *Joule*, **2019**, 3, 338-360 27.8 92
- 493 Transparent, highly conductive graphene electrodes from acetylene-assisted thermolysis of graphite oxide sheets and nanographene molecules. *Nanotechnology*, **2009**, 20, 434007 3.4 91
- 492 Spiro-Fused Perylene Diimide Arrays. *Journal of the American Chemical Society*, **2017**, 139, 15914-15920 16.4 90
- 491 Tetrabenzo[a,f,j,o]perylene: a polycyclic aromatic hydrocarbon with an open-shell singlet biradical ground state. *Angewandte Chemie - International Edition*, **2015**, 54, 12442-6 16.4 90
- 490 Deposition, characterization, and thin-film-based chemical sensing of ultra-long chemically synthesized graphene nanoribbons. *Journal of the American Chemical Society*, **2014**, 136, 7555-8 16.4 89
- 489 Gate-controlled electron transport in coronenes as a bottom-up approach towards graphene transistors. *Nature Communications*, **2010**, 1, 31 17.4 89

488	Graphene nanoribbons as low band gap donor materials for organic photovoltaics: quantum chemical aided design. <i>ACS Nano</i> , 2012 , 6, 5539-48	16.7	88
487	Benzo[1,2-b:4,5-b']bis[b]benzothiophene as solution processible organic semiconductor for field-effect transistors. <i>Chemical Communications</i> , 2008 , 1548-50	5.8	88
486	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, 11606-15	16.4	87
485	Iridium nanoparticles anchored on 3D graphite foam as a bifunctional electrocatalyst for excellent overall water splitting in acidic solution. <i>Nano Energy</i> , 2017 , 40, 27-33	17.1	87
484	Oxygen- and sulfur-containing positively charged polycyclic aromatic hydrocarbons. <i>Organic Letters</i> , 2009 , 11, 5686-9	6.2	87
483	Self-Activating, Capacitive Anion Intercalation Enables High-Power Graphite Cathodes. <i>Advanced Materials</i> , 2018 , 30, e1800533	24	86
482	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, 8006-11	16.7	86
481	Titania nanosheet-mediated construction of a two-dimensional titania/cadmium sulfide heterostructure for high hydrogen evolution activity. <i>Advanced Materials</i> , 2014 , 26, 734-8	24	86
480	Graphene encapsulated hollow TiO ₂ nanospheres: efficient synthesis and enhanced photocatalytic activity. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 3752	13	86
479	Nanoarray of polycyclic aromatic hydrocarbons and carbon nanotubes for accurate and predictive detection in real-world environmental humidity. <i>ACS Nano</i> , 2011 , 5, 6743-53	16.7	86
478	Carbon nanotube/hexa-peri-hexabenzocoronene bilayers for discrimination between nonpolar volatile organic compounds of cancer and humid atmospheres. <i>Advanced Materials</i> , 2010 , 22, 4317-20	24	86
477	Recent Advances in Earth-Abundant Heterogeneous Electrocatalysts for Photoelectrochemical Water Splitting. <i>Small Methods</i> , 2017 , 1, 1700090	12.8	85
476	Synthesis and Characterization of Extended Triangulene. <i>Journal of the American Chemical Society</i> , 2019 , 141, 10621-10625	16.4	85
475	Assembly of tin oxide/graphene nanosheets into 3D hierarchical frameworks for high-performance lithium storage. <i>ChemSusChem</i> , 2013 , 6, 1510-5	8.3	85
474	On-Surface Growth Dynamics of Graphene Nanoribbons: The Role of Halogen Functionalization. <i>ACS Nano</i> , 2018 , 12, 74-81	16.7	85
473	Copper-surface-mediated synthesis of acetylenic carbon-rich nanofibers for active metal-free photocathodes. <i>Nature Communications</i> , 2018 , 9, 1140	17.4	84
472	Patterning of conjugated polymers for organic optoelectronic devices. <i>Small</i> , 2011 , 7, 1338-60	11	84
471	Controllable columnar organization of positively charged polycyclic aromatic hydrocarbons by choice of counterions. <i>Journal of the American Chemical Society</i> , 2009 , 131, 9620-1	16.4	84

470	Tunable Self-Assembly of Diblock Copolymers into Colloidal Particles with Triply Periodic Minimal Surfaces. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 7135-7140	16.4	83
469	Towards free-standing graphene/carbon nanotube composite films via acetylene-assisted thermolysis of organocobalt functionalized graphene sheets. <i>Chemical Communications</i> , 2010 , 46, 8279-81	5.8	83
468	Fully Conjugated Phthalocyanine Copper Metal-Organic Frameworks for Sodium-Iodine Batteries with Long-Time-Cycling Durability. <i>Advanced Materials</i> , 2020 , 32, e1905361	24	83
467	Bimetallic porous porphyrin polymer-derived non-precious metal electrocatalysts for oxygen reduction reactions. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 23799-23808	13	82
466	Fast response and recovery of hydrogen sensing in Pd-Pt nanoparticle-graphene composite layers. <i>Nanotechnology</i> , 2011 , 22, 275719	3.4	82
465	Hexathienocoronenes: synthesis and self-organization. <i>Journal of the American Chemical Society</i> , 2012 , 134, 17869-72	16.4	80
464	Graphene-based optically transparent electrodes for spectroelectrochemistry in the UV-Vis region. <i>Small</i> , 2010 , 6, 184-9	11	80
463	Carbon-Tailored Semimetal MoP as an Efficient Hydrogen Evolution Electrocatalyst in Both Alkaline and Acid Media. <i>Advanced Energy Materials</i> , 2018 , 8, 1801258	21.8	80
462	A High-Rate Two-Dimensional Polyarylimide Covalent Organic Framework Anode for Aqueous Zn-Ion Energy Storage Devices. <i>Journal of the American Chemical Society</i> , 2020 , 142, 19570-19578	16.4	79
461	Two-Dimensional Carbon-Rich Conjugated Frameworks for Electrochemical Energy Applications. <i>Journal of the American Chemical Society</i> , 2020 , 142, 12903-12915	16.4	79
460	Electrochemical-reduction-assisted assembly of a polyoxometalate/graphene nanocomposite and its enhanced lithium-storage performance. <i>Chemistry - A European Journal</i> , 2013 , 19, 10895-902	4.8	79
459	Synthesis, Helical Organization, and Fibrous Formation of C ₃ Symmetric Methoxy-Substituted Discotic Hexa-peri-hexabenzocoronene. <i>Chemistry of Materials</i> , 2008 , 20, 2872-2874	9.6	79
458	Carbon materials for ion-intercalation involved rechargeable battery technologies. <i>Chemical Society Reviews</i> , 2021 , 50, 2388-2443	58.5	79
457	Engineering crystalline quasi-two-dimensional polyaniline thin film with enhanced electrical and chemiresistive sensing performances. <i>Nature Communications</i> , 2019 , 10, 4225	17.4	78
456	Unexpected Scholl Reaction of 6,7,13,14-Tetraarylbenzo[k]tetraphene: Selective Formation of Five-Membered Rings in Polycyclic Aromatic Hydrocarbons. <i>Journal of the American Chemical Society</i> , 2016 , 138, 2602-8	16.4	78
455	Synthesis of nitrogen-doped zigzag-edge peripheries: dibenzo-9a-azaphenalene as repeating unit. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 10520-4	16.4	78
454	Self-assembly of chiral molecular honeycomb networks on Au(111). <i>Journal of the American Chemical Society</i> , 2008 , 130, 8910-2	16.4	78
453	Bottom-Up Synthesis of Heteroatom-Doped Chiral Graphene Nanoribbons. <i>Journal of the American Chemical Society</i> , 2018 , 140, 9104-9107	16.4	77

452	Towards Macroscopic Crystalline 2D Polymers. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 13748-13763	18.1	73
451	Large-Area, Free-Standing, Two-Dimensional Supramolecular Polymer Single-Layer Sheets for Highly Efficient Electrocatalytic Hydrogen Evolution. <i>Angewandte Chemie</i> , 2015 , 127, 12226-12231	3.6	76
450	Metal-free phenanthrenequinone cyclotrimer as an effective heterogeneous catalyst. <i>Journal of the American Chemical Society</i> , 2009 , 131, 11296-7	16.4	76
449	Nonlinear Optical Switching in Regioregular Porphyrin Covalent Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 6896-6900	16.4	75
448	Two-dimensional conjugated metal-organic frameworks (2D -MOFs): chemistry and function for MOFtronics. <i>Chemical Society Reviews</i> , 2021 , 50, 2764-2793	58.5	75
447	Quantum Dots in Graphene Nanoribbons. <i>Nano Letters</i> , 2017 , 17, 4277-4283	11.5	74
446	Benzanelliertes Doppel-[7]Carbohelicen: Synthese, Struktur und physikochemische Eigenschaften. <i>Angewandte Chemie</i> , 2017 , 129, 3423-3427	3.6	74
445	Supramolecular Organization and Photovoltaics of Triangle-shaped Discotic Graphenes with Swallow-tailed Alkyl Substituents. <i>Advanced Materials</i> , 2008 , 20, 2684-9	24	74
444	Two-Dimensional Mesoscale-Ordered Conducting Polymers. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 12516-21	16.4	74
443	Nitrogen-enriched, ordered mesoporous carbons for potential electrochemical energy storage. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 2286-2292	13	73
442	Graphene nanoribbon blends with P3HT for organic electronics. <i>Nanoscale</i> , 2014 , 6, 6301-14	7.7	73
441	Revealing the Electronic Structure of Silicon Intercalated Armchair Graphene Nanoribbons by Scanning Tunneling Spectroscopy. <i>Nano Letters</i> , 2017 , 17, 2197-2203	11.5	72
440	Graphene-directed two-dimensional porous carbon frameworks for high-performance lithium-sulfur battery cathodes. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 314-320	13	72
439	From helical to staggered stacking of zigzag nanographenes. <i>Journal of the American Chemical Society</i> , 2007 , 129, 14116-7	16.4	72
438	Emerging 2D Materials Produced via Electrochemistry. <i>Advanced Materials</i> , 2020 , 32, e1907857	24	72
437	Toward Full Zigzag-Edged Nanographenes: peri-Tetracene and Its Corresponding Circumanthracene. <i>Journal of the American Chemical Society</i> , 2018 , 140, 6240-6244	16.4	71
436	Efficient approach to iron/nitrogen co-doped graphene materials as efficient electrochemical catalysts for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 7767-7772	13	70
435	Binder-free activated graphene compact films for all-solid-state micro-supercapacitors with high areal and volumetric capacitances. <i>Energy Storage Materials</i> , 2015 , 1, 119-126	19.4	70

- 434 Chemical Vapor Deposition Synthesis and Terahertz Photoconductivity of Low-Band-Gap N = 9 Armchair Graphene Nanoribbons. *Journal of the American Chemical Society*, **2017**, 139, 3635-3638 16.4 69
- 433 Efficient coupling of nanoparticles to electrochemically exfoliated graphene. *Journal of the American Chemical Society*, **2015**, 137, 5576-81 16.4 69
- 432 Exciton-exciton annihilation and biexciton stimulated emission in graphene nanoribbons. *Nature Communications*, **2016**, 7, 11010 17.4 69
- 431 A semiconducting layered metal-organic framework magnet. *Nature Communications*, **2019**, 10, 3260 17.4 69
- 430 One-pot synthesis of highly magnetically sensitive nanochains coated with a highly cross-linked and biocompatible polymer. *Angewandte Chemie - International Edition*, **2010**, 49, 8476-9 16.4 69
- 429 Tailoring Bond Topologies in Open-Shell Graphene Nanostructures. *ACS Nano*, **2018**, 12, 11917-11927 16.7 69
- 428 A Delamination Strategy for Thinly Layered Defect-Free High-Mobility Black Phosphorus Flakes. *Angewandte Chemie - International Edition*, **2018**, 57, 4677-4681 16.4 68
- 427 Amphiphilic polymer promoted assembly of macroporous graphene/SnO₂ frameworks with tunable porosity for high-performance lithium storage. *Small*, **2014**, 10, 2226-32 11 68
- 426 Electronic band dispersion of graphene nanoribbons via Fourier-transformed scanning tunneling spectroscopy. *Physical Review B*, **2015**, 91, 3-3 68
- 425 WS-Graphite Dual-Ion Batteries. *Nano Letters*, **2018**, 18, 7155-7164 11.5 68
- 424 A Stable Saddle-Shaped Polycyclic Hydrocarbon with an Open-Shell Singlet Ground State. *Angewandte Chemie - International Edition*, **2017**, 56, 3280-3284 16.4 67
- 423 A C₂₁₆-Nanographene Molecule with Defined Cavity as Extended Coronoid. *Journal of the American Chemical Society*, **2016**, 138, 4322-5 16.4 67
- 422 Raman Fingerprints of Atomically Precise Graphene Nanoribbons. *Nano Letters*, **2016**, 16, 3442-7 11.5 67
- 421 Two-dimensional nanostructures from positively charged polycyclic aromatic hydrocarbons. *Angewandte Chemie - International Edition*, **2011**, 50, 2791-4 16.4 67
- 420 Resolving Atomic Connectivity in Graphene Nanostructure Junctions. *Nano Letters*, **2015**, 15, 5185-90 11.5 66
- 419 Direct visualization of atomically precise nitrogen-doped graphene nanoribbons. *Applied Physics Letters*, **2014**, 105, 023101 3-4 66
- 418 Quantum units from the topological engineering of molecular graphenoids. *Science*, **2019**, 366, 1107-1110 10.3 64
- 417 Silicon anodes protected by a nitrogen-doped porous carbon shell for high-performance lithium-ion batteries. *Nanoscale*, **2017**, 9, 8871-8878 7.7 63

4 ¹⁶	Two-Dimensional Boronate Ester Covalent Organic Framework Thin Films with Large Single Crystalline Domains for a Neuromorphic Memory Device. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 8218-8224	16.4	63
4 ¹⁵	Poly(ethylene oxide) Functionalized Graphene Nanoribbons with Excellent Solution Processability. <i>Journal of the American Chemical Society</i> , 2016 , 138, 10136-9	16.4	63
4 ¹⁴	Persulfurated Coronene: A New Generation of "Sulflower". <i>Journal of the American Chemical Society</i> , 2017 , 139, 2168-2171	16.4	62
4 ¹³	Patterning Graphene Surfaces with Iron-Oxide-Embedded Mesoporous Polypyrrole and Derived N-Doped Carbon of Tunable Pore Size. <i>Small</i> , 2018 , 14, 1702755	11	61
4 ¹²	Two-dimensional nanocomposites based on chemically modified graphene. <i>Chemistry - A European Journal</i> , 2011 , 17, 10804-12	4.8	61
4 ¹¹	A simple approach towards one-dimensional mesoporous carbon with superior electrochemical capacitive activity. <i>Chemical Communications</i> , 2009 , 809-11	5.8	61
4 ¹⁰	Phthalocyanine-Based 2D Conjugated Metal-Organic Framework Nanosheets for High-Performance Micro-Supercapacitors. <i>Advanced Functional Materials</i> , 2020 , 30, 2002664	15.6	60
4 ⁰⁹	Conjugated ladder-type heteroacenes bearing pyrrole and thiophene ring units: facile synthesis and characterization. <i>Journal of Organic Chemistry</i> , 2008 , 73, 9207-13	4.2	60
4 ⁰⁸	Hierarchical-graphene-coupled polyaniline aerogels for electrochemical energy storage. <i>Carbon</i> , 2018 , 127, 77-84	10.4	59
4 ⁰⁷	A two-dimensional hybrid with molybdenum disulfide nanocrystals strongly coupled on nitrogen-enriched graphene via mild temperature pyrolysis for high performance lithium storage. <i>Nanoscale</i> , 2014 , 6, 14679-85	7.7	59
4 ⁰⁶	Graphene Nanoribbons by Chemists: Nanometer-Sized, Soluble, and Defect-Free. <i>Angewandte Chemie</i> , 2011 , 123, 2588-2591	3.6	59
4 ⁰⁵	Synthesis of Dibenzo[hi,st]ovalene and Its Amplified Spontaneous Emission in a Polystyrene Matrix. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 6753-6757	16.4	58
4 ⁰⁴	Nitrogen-doped carbon-encapsulated SnO ₂ /SnS/graphene sheets with improved anodic performance in lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 24148-24154	13	58
4 ⁰³	Polycyclic aromatic azomethine ylides: a unique entry to extended polycyclic heteroaromatics. <i>Chemical Science</i> , 2015 , 6, 436-441	9.4	58
4 ⁰²	Aromatic Phosphonates: A Novel Group of Emitters Showing Blue Ultralong Room Temperature Phosphorescence. <i>Advanced Materials</i> , 2020 , 32, e2000880	24	58
4 ⁰¹	Lateral Fusion of Chemical Vapor Deposited N = 5 Armchair Graphene Nanoribbons. <i>Journal of the American Chemical Society</i> , 2017 , 139, 9483-9486	16.4	58
4 ⁰⁰	Ambient-Stable Two-Dimensional Titanium Carbide (MXene) Enabled by Iodine Etching. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 8689-8693	16.4	58
399	Temperature-Dependent Multidimensional Self-Assembly of Polyphenylene-Based "Rod-Coil" Graft Polymers. <i>Journal of the American Chemical Society</i> , 2015 , 137, 11602-5	16.4	57

- 398 Flexible in-plane micro-supercapacitors: Progresses and challenges in fabrication and applications. *Energy Storage Materials*, **2020**, 28, 160-187 19.4 57
- 397 Demonstration of a Broadband Photodetector Based on a Two-Dimensional Metal-Organic Framework. *Advanced Materials*, **2020**, 32, e1907063 24 57
- 396 Discotic materials for organic solar cells: Effects of chemical structure on assembly and performance. *Solar Energy Materials and Solar Cells*, **2010**, 94, 560-567 6.4 57
- 395 Periodic potentials in hybrid van der Waals heterostructures formed by supramolecular lattices on graphene. *Nature Communications*, **2017**, 8, 14767 17.4 56
- 394 Scanning tunneling microscopy-induced reversible phase transformation in the two-dimensional crystal of a positively charged discotic polycyclic aromatic hydrocarbon. *Journal of the American Chemical Society*, **2011**, 133, 5686-8 16.4 56
- 393 A High-Voltage, Dendrite-Free, and Durable Zn-Graphite Battery. *Advanced Materials*, **2020**, 32, e19056814 56
- 392 Interlayer gap widened phase molybdenum trioxide as high-rate anodes for dual-ion-intercalation energy storage devices. *Nature Communications*, **2020**, 11, 1348 17.4 55
- 391 Highly Crystalline and Semiconducting Imine-Based Two-Dimensional Polymers Enabled by Interfacial Synthesis. *Angewandte Chemie - International Edition*, **2020**, 59, 6028-6036 16.4 55
- 390 Exploration of pyrazine-embedded antiaromatic polycyclic hydrocarbons generated by solution and on-surface azomethine ylide homocoupling. *Nature Communications*, **2017**, 8, 1948 17.4 55
- 389 Thermoswitchable on-chip microsupercapacitors: one potential self-protection solution for electronic devices. *Energy and Environmental Science*, **2018**, 11, 1717-1722 35.4 55
- 388 Nitrogen-doped carbon nanosheets and nanoflowers with holey mesopores for efficient oxygen reduction catalysis. *Journal of Materials Chemistry A*, **2018**, 6, 10354-10360 13 55
- 387 Facile template-free synthesis of vertically aligned polypyrrole nanosheets on nickel foams for flexible all-solid-state asymmetric supercapacitors. *Nanoscale*, **2016**, 8, 8650-7 7.7 55
- 386 Cationic Nitrogen-Doped Helical Nanographenes. *Angewandte Chemie - International Edition*, **2017**, 56, 15876-15881 16.4 55
- 385 Preparation of microporous melamine-based polymer networks in an anhydrous high-temperature miniemulsion. *Macromolecular Rapid Communications*, **2011**, 32, 1798-803 4.8 55
- 384 Graphene-Based Nanosheets with a Sandwich Structure. *Angewandte Chemie*, **2010**, 122, 4905-4909 3.6 55
- 383 Controlling the columnar orientation of C₃-symmetric "superbenzenes" through alternating polar/apolar substituents. *Angewandte Chemie - International Edition*, **2008**, 47, 1703-6 16.4 55
- 382 Highly Efficient Electrocatalysts for Oxygen Reduction Reaction Based on 1D Ternary Doped Porous Carbons Derived from Carbon Nanotube Directed Conjugated Microporous Polymers. *Advanced Functional Materials*, **2016**, 26, 8255-8265 15.6 55
- 381 Dual-Graphene Rechargeable Sodium Battery. *Small*, **2017**, 13, 1702449 11 53

- 380 Chemical Approaches to Carbon-Based Metal-Free Catalysts. *Advanced Materials*, **2019**, 31, e1804863 24 53
- 379 A Stimulus-Responsive Zinc-Iodine Battery with Smart Overcharge Self-Protection Function. *Advanced Materials*, **2020**, 32, e2000287 24 53
- 378 Electron-Transporting Bis(heterotetracenes) with Tunable Helical Packing. *Angewandte Chemie - International Edition*, **2018**, 57, 10933-10937 16.4 53
- 377 Helical Nanographenes Containing an Azulene Unit: Synthesis, Crystal Structures, and Properties. *Angewandte Chemie - International Edition*, **2020**, 59, 5637-5642 16.4 53
- 376 Facile synthesis of bowl-shaped nitrogen-doped carbon hollow particles templated by block copolymer Bippah vesicles for high performance supercapacitors. *Polymer Chemistry*, **2016**, 7, 2092-2098⁴⁻⁹ 52
- 375 On-Surface Cyclization of ortho-Dihalotetracenes to Four- and Six-Membered Rings. *Journal of the American Chemical Society*, **2017**, 139, 17617-17623 16.4 52
- 374 Gemini surfactant assisted synthesis of two-dimensional metal nanoparticles/graphene composites. *Chemical Communications*, **2012**, 48, 2119-21 5.8 52
- 373 Extrinsic corrugation-assisted mechanical exfoliation of monolayer graphene. *Advanced Materials*, **2010**, 22, 5374-7 24 52
- 372 Topochemical Synthesis of Two-Dimensional Transition-Metal Phosphides Using Phosphorene Templates. *Angewandte Chemie - International Edition*, **2020**, 59, 465-470 16.4 52
- 371 Direct observation of the ionization step in solvolysis reactions: electrophilicity versus electrofugality of carbocations. *Journal of the American Chemical Society*, **2008**, 130, 3012-22 16.4 51
- 370 Ternary MoS₂/SiO₂/graphene hybrids for high-performance lithium storage. *Carbon*, **2015**, 81, 203-209 10.4 50
- 369 A Phthalocyanine-Based Layered Two-Dimensional Conjugated Metal-Organic Framework as a Highly Efficient Electrocatalyst for the Oxygen Reduction Reaction. *Angewandte Chemie*, **2019**, 131, 10787-10792^{3,6} 49
- 368 Surface-Synthesized Graphene Nanoribbons for Room Temperature Switching Devices: Substrate Transfer and ex Situ Characterization. *ACS Applied Nano Materials*, **2019**, 2, 2184-2192 5.6 49
- 367 Fused Dibenzo[a,m]rubicene: A New Bowl-Shaped Subunit of C₇₀ Containing Two Pentagons. *Journal of the American Chemical Society*, **2016**, 138, 8364-7 16.4 49
- 366 2D polyacrylonitrile brush derived nitrogen-doped carbon nanosheets for high-performance electrocatalysts in oxygen reduction reaction. *Polymer Chemistry*, **2014**, 5, 2057-2064 4.9 49
- 365 Metal-nitrogen doping of mesoporous carbon/graphene nanosheets by self-templating for oxygen reduction electrocatalysts. *ChemSusChem*, **2014**, 7, 3002-6 8.3 49
- 364 Temperature-enhanced solvent vapor annealing of a C₃ symmetric hexa-peri-hexabenzocoronene: controlling the self-assembly from nano- to macroscale. *Small*, **2009**, 5, 112-9 11 49
- 363 Arrays of aligned supramolecular wires by macroscopic orientation of columnar discotic mesophases. *ACS Nano*, **2012**, 6, 9359-65 16.7 48

362	Boron-Nitrogen-based conjugated porous polymers with multi-functions. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 13878	13	48
361	Topological Defect-Induced Magnetism in a Nanographene. <i>Journal of the American Chemical Society</i> , 2020 , 142, 1147-1152	16.4	48
360	Beyond Activated Carbon: Graphite-Cathode-Derived Li-Ion Pseudocapacitors with High Energy and High Power Densities. <i>Advanced Materials</i> , 2019 , 31, e1807712	24	48
359	High Power In-Plane Micro-Supercapacitors Based on Mesoporous Polyaniline Patterned Graphene. <i>Small</i> , 2017 , 13, 1603388	11	47
358	Open-Shell Nonbenzenoid Nanographenes Containing Two Pairs of Pentagonal and Heptagonal Rings. <i>Journal of the American Chemical Society</i> , 2019 , 141, 12011-12020	16.4	47
357	Electrodeposited Manganese Oxide on Nickel Foam-Supported Carbon Nanotubes for Electrode of Supercapacitors. <i>Electrochemical and Solid-State Letters</i> , 2011 , 14, A93		47
356	Graphene and other 2D materials: a multidisciplinary analysis to uncover the hidden potential as cancer theranostics. <i>Theranostics</i> , 2020 , 10, 5435-5488	12.1	47
355	Bandgap Engineering of Graphene Nanoribbons by Control over Structural Distortion. <i>Journal of the American Chemical Society</i> , 2018 , 140, 7803-7809	16.4	47
354	Nitrogen-enriched hierarchically porous carbon materials fabricated by graphene aerogel templated Schiff-base chemistry for high performance electrochemical capacitors. <i>Polymer Chemistry</i> , 2015 , 6, 1088-1095	4.9	46
353	A Dual-Stimuli-Responsive Sodium-Bromine Battery with Ultrahigh Energy Density. <i>Advanced Materials</i> , 2018 , 30, e1800028	24	46
352	Magnetoresistance and charge transport in graphene governed by nitrogen dopants. <i>ACS Nano</i> , 2015 , 9, 1360-6	16.7	46
351	Field effect transistors based on polycyclic aromatic hydrocarbons for the detection and classification of volatile organic compounds. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 3431-40	9.5	46
350	Constructing Hierarchically Hollow Core-Shell MnO ₂ /C Hybrid Spheres for High-Performance Lithium Storage. <i>Small</i> , 2016 , 12, 3914-9	11	46
349	Highly oriented macroporous graphene hybrid monoliths for lithium ion battery electrodes with ultrahigh capacity and rate capability. <i>Nano Energy</i> , 2015 , 12, 287-295	17.1	45
348	Perylene Sensitization of Fullerenes for Improved Performance in Organic Photovoltaics. <i>Advanced Energy Materials</i> , 2011 , 1, 861-869	21.8	45
347	Hierarchical Self-Assembly of Edge-On Nanocolumnar Superstructures of Large Disc-Like Molecules. <i>Advanced Materials</i> , 2008 , 20, 3854-3858	24	45
346	Interfacial Approach toward Benzene-Bridged Polypyrrole Film-Based Micro-Supercapacitors with Ultrahigh Volumetric Power Density. <i>Advanced Functional Materials</i> , 2020 , 30, 1908243	15.6	45
345	Extended and Curved Antiaromatic Polycyclic Hydrocarbons. <i>Journal of the American Chemical Society</i> , 2017 , 139, 7513-7521	16.4	44

344	Heteroatom-Doped Perihexacene from a Double Helicene Precursor: On-Surface Synthesis and Properties. <i>Journal of the American Chemical Society</i> , 2017 , 139, 4671-4674	16.4	44
343	Adding Four Extra K-Regions to Hexa-peri-hexabenzocoronene. <i>Journal of the American Chemical Society</i> , 2016 , 138, 4726-9	16.4	44
342	Polyaniline-Coupled Multifunctional 2D Metal Oxide/Hydroxide Graphene Nanohybrids. <i>Angewandte Chemie</i> , 2013 , 125, 12327-12331	3.6	44
341	Promoted oxygen reduction kinetics on nitrogen-doped hierarchically porous carbon by engineering proton-feeding centers. <i>Energy and Environmental Science</i> , 2020 , 13, 2849-2855	35.4	44
340	Ultrathin two-dimensional conjugated metal-organic framework single-crystalline nanosheets enabled by surfactant-assisted synthesis. <i>Chemical Science</i> , 2020 , 11, 7665-7671	9.4	44
339	Structure-dependent electrical properties of graphene nanoribbon devices with graphene electrodes. <i>Carbon</i> , 2019 , 146, 36-43	10.4	43
338	Angular BN-Heteroacenes with syn-Structure-Induced Promising Properties as Host Materials of Blue Organic Light-Emitting Diodes. <i>Organic Letters</i> , 2016 , 18, 3618-21	6.2	43
337	Graphene aerogel supported Fe ₅ (PO ₄) ₄ (OH) ₃ ·2H ₂ O microspheres as high performance cathode for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 6174-6179	13	43
336	Controlled Synthesis of N-Doped Carbon Nanospheres with Tailored Mesopores through Self-Assembly of Colloidal Silica. <i>Angewandte Chemie</i> , 2015 , 127, 15406-15411	3.6	43
335	Two-Dimensional Sandwich-Type, Graphene-Based Conjugated Microporous Polymers. <i>Angewandte Chemie</i> , 2013 , 125, 9850-9854	3.6	43
334	Collective All-Carbon Magnetism in Triangulene Dimers. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 12041-12047	16.4	43
333	In situ nanoarchitecturing and active-site engineering toward highly efficient carbonaceous electrocatalysts. <i>Nano Energy</i> , 2019 , 59, 207-215	17.1	42
332	Oxidation promoted osmotic energy conversion in black phosphorus membranes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 13959-13966	11.5	42
331	Thiazolothiazole-linked porous organic polymers. <i>Chemical Communications</i> , 2014 , 50, 15055-8	5.8	42
330	Self-Assembly of Integrated Tubular Microsupercapacitors with Improved Electrochemical Performance and Self-Protective Function. <i>ACS Nano</i> , 2019 , 13, 8067-8075	16.7	41
329	Electrochemically Exfoliated High-Quality 2H-MoS for Multflake Thin Film Flexible Biosensors. <i>Small</i> , 2019 , 15, e1901265	11	40
328	The mechanochemical Scholl reaction - a solvent-free and versatile graphitization tool. <i>Chemical Communications</i> , 2018 , 54, 5307-5310	5.8	40
327	Solution-Processable High-Quality Graphene for Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 25412-25417	9.5	40

326	Fabrication of Fully Fluorinated Graphene Nanosheets Towards High-Performance Lithium Storage. <i>Advanced Materials Interfaces</i> , 2014 , 1, 1300149	4.6	40
325	Cobalt-Based Metal-Organic Framework Nanoarrays as Bifunctional Oxygen Electrocatalysts for Rechargeable Zn-Air Batteries. <i>Chemistry - A European Journal</i> , 2018 , 24, 18413-18418	4.8	40
324	On-Surface Synthesis of a Nonplanar Porous Nanographene. <i>Journal of the American Chemical Society</i> , 2019 , 141, 7726-7730	16.4	39
323	Amino functionalization optimizes potential distribution: A facile pathway towards high-energy carbon-based aqueous supercapacitors. <i>Nano Energy</i> , 2019 , 65, 103987	17.1	39
322	Photoinduced C-C reactions on insulators toward photolithography of graphene nanoarchitectures. <i>Journal of the American Chemical Society</i> , 2014 , 136, 4651-8	16.4	39
321	Triangle-Shaped Polycyclic Aromatic Hydrocarbons. <i>Angewandte Chemie</i> , 2007 , 119, 3093-3096	3.6	39
320	Synthetic Tailoring of Graphene Nanostructures with Zigzag-Edged Topologies: Progress and Perspectives. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 23386-23401	16.4	39
319	Stop-Frame Filming and Discovery of Reactions at the Single-Molecule Level by Transmission Electron Microscopy. <i>ACS Nano</i> , 2017 , 11, 2509-2520	16.7	38
318	Ultrafast Electrochemical Synthesis of Defect-Free In Se Flakes for Large-Area Optoelectronics. <i>Advanced Materials</i> , 2020 , 32, e1907244	24	38
317	Electrochemically exfoliated graphene/PEDOT composite films as efficient Pt-free counter electrode for dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2016 , 194, 110-115	6.7	38
316	Polarity-Switchable Symmetric Graphite Batteries with High Energy and High Power Densities. <i>Advanced Materials</i> , 2018 , 30, e1802949	24	38
315	Spongelike structures of hexa-peri-hexabenzocoronene derivatives enhance the sensitivity of chemiresistive carbon nanotubes to nonpolar volatile organic compounds of cancer. <i>Langmuir</i> , 2009 , 25, 5411-6	4	38
314	Chemical Approaches to 2D Materials. <i>Advanced Materials</i> , 2016 , 28, 6027-9	24	38
313	Highly Boosted Reaction Kinetics in Carbon Dioxide Electroreduction by Surface-Introduced Electronegative Dopants. <i>Advanced Functional Materials</i> , 2021 , 31, 2008146	15.6	38
312	Synthesis and Properties of C(2h)-Symmetric BN-Heteroacenes Tailored through Aromatic Central Cores. <i>Journal of Organic Chemistry</i> , 2015 , 80, 10127-33	4.2	37
311	Hypercrosslinked porous polymer nanosheets: 2D RAFT agent directed emulsion polymerization for multifunctional applications. <i>Polymer Chemistry</i> , 2015 , 6, 7171-7178	4.9	37
310	Bottom-Up Synthesis of Necklace-Like Graphene Nanoribbons. <i>Chemistry - an Asian Journal</i> , 2015 , 10, 2134-8	4.5	37
309	Bioinspired Wafer-Scale Production of Highly Stretchable Carbon Films for Transparent Conductive Electrodes. <i>Angewandte Chemie</i> , 2013 , 125, 5645-5648	3.6	37

308	Nano-sandwiched metal hexacyanoferrate/graphene hybrid thin films for in-plane asymmetric micro-supercapacitors with ultrahigh energy density. <i>Materials Horizons</i> , 2019 , 6, 1041-1049	14.4	37
307	Thiophene-Bridged Donor-Acceptor sp ² -Carbon-Linked 2D Conjugated Polymers as Photocathodes for Water Reduction. <i>Advanced Materials</i> , 2021 , 33, e2006274	24	37
306	Cobaloxime anchored MoS ₂ nanosheets as electrocatalysts for the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 138-144	13	37
305	High Photoresponsivity in Graphene Nanoribbon Field-Effect Transistor Devices Contacted with Graphene Electrodes. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 10620-10625	3.8	36
304	Tetrabenzo[a,f,j,o]perylene: A Polycyclic Aromatic Hydrocarbon With An Open-Shell Singlet Biradical Ground State. <i>Angewandte Chemie</i> , 2015 , 127, 12619-12623	3.6	36
303	A Delamination Strategy for Thinly Layered Defect-Free High-Mobility Black Phosphorus Flakes. <i>Angewandte Chemie</i> , 2018 , 130, 4767-4771	3.6	36
302	Polymer-directed synthesis of metal oxide-containing nanomaterials for electrochemical energy storage. <i>Nanoscale</i> , 2014 , 6, 106-21	7.7	36
301	Columnar self-assembly in electron-deficient heterotriangulenes. <i>Chemistry - A European Journal</i> , 2013 , 19, 8117-28	4.8	36
300	Synthesis of Vinylene-Linked Two-Dimensional Conjugated Polymers via the Horner-Wadsworth-Emmons Reaction. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 23620-23625	16.4	36
299	Poly(1,4-Diethynylbenzene) Gradient Homojunction with Enhanced Charge Carrier Separation for Photoelectrochemical Water Reduction. <i>Advanced Materials</i> , 2019 , 31, e1900961	24	35
298	A dual-boron-cored luminogen capable of sensing and imaging. <i>Chemical Communications</i> , 2015 , 51, 5298-301	9.801	35
297	Growth of 2D Mesoporous Polyaniline with Controlled Pore Structures on Ultrathin MoS ₂ Nanosheets by Block Copolymer Self-Assembly in Solution. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 43975-43982	9.5	35
296	Two-Dimensional Sandwich-Structured Mesoporous MoC/Carbon/Graphene Nanohybrids for Efficient Hydrogen Production Electrocatalysts. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 40800-40807	9.5	35
295	Ultrathin tin monosulfide nanosheets with the exposed (001) plane for efficient electrocatalytic conversion of CO into formate. <i>Chemical Science</i> , 2020 , 11, 3952-3958	9.4	34
294	Supramolecular Nanostructures of Structurally Defined Graphene Nanoribbons in the Aqueous Phase. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 3366-3371	16.4	34
293	Sensor Arrays Based on Polycyclic Aromatic Hydrocarbons: Chemiresistors versus Quartz-Crystal Microbalance. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 11641-53	9.5	34
292	Polymer-Based Batteries-Flexible and Thin Energy Storage Systems. <i>Advanced Materials</i> , 2020 , 32, e2000587	15.7	34
291	A Stable Saddle-Shaped Polycyclic Hydrocarbon with an Open-Shell Singlet Ground State. <i>Angewandte Chemie</i> , 2017 , 129, 3328-3332	3.6	33

- 290 Sulfur-doped graphene nanoribbons with a sequence of distinct band gaps. *Nano Research*, **2017**, 10, 3377-3384 10 33
- 289 Graphene Nanoribbons Derived from Zigzag Edge-Encased Poly(para-2,9-dibenzo[bc, kl]coronene) Polymer Chains. *Journal of the American Chemical Society*, **2019**, 141, 2843-2846 16.4 32
- 288 High-Mobility Semiconducting Two-Dimensional Conjugated Covalent Organic Frameworks with -Type Doping. *Journal of the American Chemical Society*, **2020**, 142, 21622-21627 16.4 32
- 287 Subliming the unsublimable: how to deposit nanographenes. *Angewandte Chemie - International Edition*, **2009**, 48, 4602-4 16.4 32
- 286 NBN-embedded Polycyclic Aromatic Hydrocarbons Containing Pentagonal and Heptagonal Rings. *Organic Letters*, **2019**, 21, 1354-1358 6.2 32
- 285 Triple Boron-Cored Chromophores Bearing Discotic 5,11,17-Triazatrinaphthylene-Based Ligands. *Organic Letters*, **2016**, 18, 1398-401 6.2 31
- 284 Intrinsic Properties of Single Graphene Nanoribbons in Solution: Synthetic and Spectroscopic Studies. *Journal of the American Chemical Society*, **2018**, 140, 10416-10420 16.4 31
- 283 Electrical Characteristics of Field-Effect Transistors based on Chemically Synthesized Graphene Nanoribbons. *Advanced Electronic Materials*, **2015**, 1, 1400010 6.4 31
- 282 Molecular triangles: synthesis, self-assembly, and blue emission of cyclo-7,10-tris-triphenylenyl macrocycles. *Chemistry - an Asian Journal*, **2011**, 6, 3001-10 4.5 31
- 281 Sulfur-annulated hexa-peri-hexabenzocoronene decorated with phenylthio groups at the periphery. *Angewandte Chemie - International Edition*, **2015**, 54, 2927-31 16.4 30
- 280 Squeezing, then stacking: from breathing pores to three-dimensional ionic self-assembly under electrochemical control. *Angewandte Chemie - International Edition*, **2014**, 53, 12951-4 16.4 30
- 279 Compact Coupled Graphene and Porous Polyaryltriazine-Derived Frameworks as High Performance Cathodes for Lithium-Ion Batteries. *Angewandte Chemie*, **2015**, 127, 1832-1836 3.6 29
- 278 Fe₂N₂C Electrocatalysts with Densely Accessible Fe₂N₄ Sites for Efficient Oxygen Reduction Reaction. *Advanced Functional Materials*, **2021**, 31, 2102420 15.6 29
- 277 Two-dimensional organic cathode materials for alkali-metal-ion batteries. *Journal of Energy Chemistry*, **2018**, 27, 86-98 12 29
- 276 Soft-Template Construction of 3D Macroporous Polypyrrole Scaffolds. *Small*, **2017**, 13, 1604099 11 28
- 275 Multi-Dimensional Self-Assembly of a Dual-Responsive ABC Miktoarm Star Terpolymer. *ACS Macro Letters*, **2017**, 6, 426-430 6.6 28
- 274 Fully sp²-Carbon-Linked Crystalline Two-Dimensional Conjugated Polymers: Insight into 2D Poly(phenylenecyanovinylene) Formation and its Optoelectronic Properties. *Chemistry - A European Journal*, **2019**, 25, 6562-6568 4.8 28
- 273 Graphene-coupled nitrogen-enriched porous carbon nanosheets for energy storage. *Journal of Materials Chemistry A*, **2017**, 5, 16732-16739 13 28

272	Cross-linked polymer-derived B/N co-doped carbon materials with selective capture of CO ₂ . <i>Journal of Materials Chemistry A</i> , 2015 , 3, 23352-23359	13	27
271	On-Surface Synthesis of NBN-Doped Zigzag-Edged Graphene Nanoribbons. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 8873-8879	16.4	27
270	Dirac Nodal Arc Semimetal PtSn : An Ideal Platform for Understanding Surface Properties and Catalysis for Hydrogen Evolution. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 13107-13112	16.4	27
269	2D Heterostructures Derived from MoS ₂ -Templated, Cobalt-Containing Conjugated Microporous Polymer Sandwiches for the Oxygen Reduction Reaction and Electrochemical Energy Storage. <i>ChemElectroChem</i> , 2017 , 4, 709-715	4.3	26
268	Tunable Self-Assembly of Diblock Copolymers into Colloidal Particles with Triply Periodic Minimal Surfaces. <i>Angewandte Chemie</i> , 2017 , 129, 7241-7246	3.6	26
267	Hierarchical TiO ₂ /SnO ₂ /graphene aerogels for enhanced lithium storage. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 1580-4	3.6	26
266	Synthetic Engineering of Graphene Nanoribbons with Excellent Liquid-Phase Processability. <i>Trends in Chemistry</i> , 2019 , 1, 549-558	14.8	26
265	Synthese Stickstoff-dotierter Zickzackkanten: Dibenzo-9a-azaphenalen als molekularer Baustein. <i>Angewandte Chemie</i> , 2014 , 126, 10688-10692	3.6	26
264	Microribbon Field-Effect Transistors Based on Dithieno[2,3-d;2,3'-d']benzo[1,2-b;4,5-b']dithiophene Processed by Solvent Vapor Diffusion. <i>Chemistry of Materials</i> , 2011 , 23, 4960-4964	9.6	26
263	Synthesis and self-assembly of dibenzo[jk,mn]naphtho[2,1,8-fgh]thebenidinium derivates. <i>Tetrahedron</i> , 2008 , 64, 11379-11386	2.4	26
262	Wave-shaped polycyclic hydrocarbons with controlled aromaticity. <i>Chemical Science</i> , 2019 , 10, 4025-4031	11.4	26
261	Highly selective and ultra-low power consumption metal oxide based hydrogen gas sensor employing graphene oxide as molecular sieve. <i>Sensors and Actuators B: Chemical</i> , 2020 , 320, 128363	8.5	25
260	Boron-doped, carbon-coated SnO ₂ /graphene nanosheets for enhanced lithium storage. <i>Chemistry - A European Journal</i> , 2015 , 21, 5617-22	4.8	25
259	Polycyclic aromatic hydrocarbon for the detection of nonpolar analytes under counteracting humidity conditions. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 4960-5	9.5	25
258	Fluorenyl hexa-peri-hexabenzocoronene-dendritic oligothiophene hybrid materials: synthesis, photophysical properties, self-association behaviour and device performance. <i>Chemistry - A European Journal</i> , 2011 , 17, 5549-60	4.8	25
257	Luminescent sp ² -Carbon-Linked 2D Conjugated Polymers with High Photostability. <i>Chemistry of Materials</i> , 2020 , 32, 7985-7991	9.6	25
256	Exploration of Thiazolo[5,4-d]thiazole Linkages in Conjugated Porous Organic Polymers for Chemoselective Molecular Sieving. <i>Chemistry - A European Journal</i> , 2018 , 24, 10868-10875	4.8	25
255	Molecular Engineering of Conjugated Acetylenic Polymers for Efficient Cocatalyst-free Photoelectrochemical Water Reduction. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 10368-10374	16.4	24

- 254 One-pot approach to Pd-loaded porous polymers with properties tunable by the oxidation state of the phosphorus core. *Polymer Chemistry*, **2015**, 6, 6351-6357 4.9 24
- 253 Electron beam controlled covalent attachment of small organic molecules to graphene. *Nanoscale*, **2016**, 8, 2711-9 7.7 24
- 252 Electronic and Optical Properties of 2D Materials Constructed from Light Atoms. *Advanced Materials*, **2018**, 30, e1801600 24 24
- 251 Facile Protocol for Alkaline Electrolyte Purification and Its Influence on a Ni₂O₃ Oxide Catalyst for the Oxygen Evolution Reaction. *ACS Catalysis*, **2019**, 9, 8165-8170 13.1 24
- 250 Coplanar asymmetrical reduced graphene oxide-titanium electrodes for polymer photodetectors. *Advanced Materials*, **2012**, 24, 1566-70 24 24
- 249 Exhaled Breath Markers for Nonimaging and Noninvasive Measures for Detection of Multiple Sclerosis. *ACS Chemical Neuroscience*, **2017**, 8, 2402-2413 5.7 24
- 248 Precursor-controlled and template-free synthesis of nitrogen-doped carbon nanoparticles for supercapacitors. *RSC Advances*, **2015**, 5, 50063-50069 3.7 24
- 247 Self-assembly and microstructural control of a hexa-peri-hexabenzocoronene-perylene diimide dyad by solvent vapor diffusion. *Small*, **2011**, 7, 2841-6 11 24
- 246 Efficient synthesis and physical properties of novel H-shaped 2,3,7,8-tetraazaanthracene-based conjugated molecules. *Chemical Communications*, **2012**, 48, 4166-8 5.8 24
- 245 2D framework materials for energy applications. *Chemical Science*, **2020**, 12, 1600-1619 9.4 24
- 244 Polycyclic heteroaromatic hydrocarbons containing a benzoisindole core. *Organic Chemistry Frontiers*, **2017**, 4, 847-852 5.2 23
- 243 A Shape-Persistent Polyphenylene Spoked Wheel. *Journal of the American Chemical Society*, **2016**, 138, 15539-15542 16.4 23
- 242 Hierarchically porous carbons as supports for fuel cell electrocatalysts with atomically dispersed Fe-N moieties. *Chemical Science*, **2019**, 10, 8236-8240 9.4 23
- 241 Two-Dimensional Nanostructures from Positively Charged Polycyclic Aromatic Hydrocarbons. *Angewandte Chemie*, **2011**, 123, 2843-2846 3.6 23
- 240 Helical Nanographenes Containing an Azulene Unit: Synthesis, Crystal Structures, and Properties. *Angewandte Chemie*, **2020**, 132, 5686-5691 3.6 23
- 239 Silicon-Compatible Carbon-Based Micro-Supercapacitors. *Angewandte Chemie - International Edition*, **2016**, 55, 6136-8 16.4 23
- 238 Nonlinear Optical Switching in Regioregular Porphyrin Covalent Organic Frameworks. *Angewandte Chemie*, **2019**, 131, 6970-6974 3.6 22
- 237 High-Performance Metal-Free Nanosheets Array Electrocatalyst for Oxygen Evolution Reaction in Acid. *Advanced Functional Materials*, **2020**, 30, 2003000 15.6 22

236	Design and construction of few-layer graphene cathode for ultrafast and high-capacity aluminum-ion batteries. <i>Energy Storage Materials</i> , 2020 , 27, 396-404	19.4	22
235	Columnar liquid crystalline bis-N-annulated quaterrylenes. <i>Chemical Communications</i> , 2011 , 47, 10088-90	5.8	22
234	Coordination Polymer Framework Based On-Chip Micro-Supercapacitors with AC Line-Filtering Performance. <i>Angewandte Chemie</i> , 2017 , 129, 3978-3982	3.6	21
233	Charge carrier mobilities in organic semiconductors: crystal engineering and the importance of molecular contacts. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 21988-96	3.6	21
232	Engineering of Magnetic Coupling in Nanographene. <i>Physical Review Letters</i> , 2020 , 124, 147206	7.4	21
231	Effect of Side Chains on the Low-Dimensional Self-Assembly of Polyphenylene-Based Rod-Coil Graft Copolymers in Solution. <i>Macromolecules</i> , 2018 , 51, 161-172	5.5	21
230	Building Pentagons into Graphenic Structures by On-Surface Polymerization and Aromatic Cyclodehydrogenation of Phenyl-Substituted Polycyclic Aromatic Hydrocarbons. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 17588-17593	3.8	21
229	Kationische stickstoffdotierte helikale Nanographene. <i>Angewandte Chemie</i> , 2017 , 129, 16092-16097	3.6	21
228	Dip-coating-induced fiber growth of a soluble heterotriangulene. <i>ChemPhysChem</i> , 2011 , 12, 1648-51	3.2	21
227	Liquid Crystal Addressing by Graphene Electrodes Made from Graphene Oxide. <i>Japanese Journal of Applied Physics</i> , 2010 , 49, 100206	1.4	21
226	Unusual Symmetry Effect on Hexa-peri-hexabenzocoronene. <i>Chemistry of Materials</i> , 2008 , 20, 1191-1193	3.6	21
225	Observation of fractional edge excitations in nanographene spin chains. <i>Nature</i> , 2021 , 598, 287-292	50.4	21
224	Vinylene-Linked Two-Dimensional Covalent Organic Frameworks: Synthesis and Functions. <i>Accounts of Materials Research</i> , 2021 , 2, 252-265	7.5	21
223	Selective electrocatalytic semihydrogenation of acetylene impurities for the production of polymer-grade ethylene. <i>Nature Catalysis</i> ,	36.5	21
222	Perchlorination of Coronene Enhances its Propensity for Self-Assembly on Graphene. <i>ChemPhysChem</i> , 2016 , 17, 352-7	3.2	21
221	Efficient approach to electron-deficient 1,2,7,8-tetraazaperylene derivatives. <i>Organic Letters</i> , 2014 , 16, 4726-9	6.2	20
220	Growth of long, highly stable, and densely packed worm-like nanocolumns of hexa-peri-hexabenzocoronenes via chemisorption on Au(111). <i>Journal of the American Chemical Society</i> , 2009 , 131, 1378-9	16.4	20
219	Dual-Redox-Sites Enable Two-Dimensional Conjugated Metal-Organic Frameworks with Large Pseudocapacitance and Wide Potential Window. <i>Journal of the American Chemical Society</i> , 2021 , 143, 10168-10176	16.4	20

218	High-index faceted binary-metal selenide nanosheet arrays as efficient 3D electrodes for alkaline hydrogen evolution. <i>Nanoscale</i> , 2019 , 11, 17571-17578	7.7	19
217	Zeolitic Imidazolate Framework-Derived Core-Shell-Structured CoS ₂ /CoS ₂ -N-C Supported on Electrochemically Exfoliated Graphene Foil for Efficient Oxygen Evolution. <i>Batteries and Supercaps</i> , 2019 , 2, 348-354	5.6	19
216	Vacancy modification of Prussian-blue nano-thin films for high energy-density micro-supercapacitors with ultralow RC time constant. <i>Nano Energy</i> , 2019 , 60, 8-16	17.1	19
215	Topological control of 3,4-connected frameworks based on the Cu ₂ -paddle-wheel node: tbo or pto, and why?. <i>CrystEngComm</i> , 2016 , 18, 8164-8171	3.3	19
214	Discotic hexa-peri-hexabenzocoronenes with strong dipole: synthesis, self-assembly and dynamic studies. <i>Chemical Communications</i> , 2012 , 48, 702-4	5.8	19
213	Structural polymorphism in self-assembled networks of a triphenylene based macrocycle. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 12495-503	3.6	19
212	Boosting the Electrocatalytic Conversion of Nitrogen to Ammonia on Metal-Phthalocyanine-Based Two-Dimensional Conjugated Covalent Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2021 , 143, 19992-20000	16.4	19
211	Identification of Catalytic Sites for Oxygen Reduction in Metal/Nitrogen-Doped Carbons with Encapsulated Metal Nanoparticles. <i>Angewandte Chemie</i> , 2020 , 132, 1644-1650	3.6	19
210	Two-Dimensional Core-Shelled Porous Hybrids as Highly Efficient Catalysts for the Oxygen Reduction Reaction. <i>Angewandte Chemie</i> , 2016 , 128, 6972-6977	3.6	19
209	Anionic porous polymers with tunable structures and catalytic properties. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 15162-15168	13	19
208	On-Surface Synthesis and Characterization of Acene-Based Nanoribbons Incorporating Four-Membered Rings. <i>Chemistry - A European Journal</i> , 2019 , 25, 12074-12082	4.8	18
207	Two-Dimensional Boronate Ester Covalent Organic Framework Thin Films with Large Single Crystalline Domains for a Neuromorphic Memory Device. <i>Angewandte Chemie</i> , 2020 , 132, 8295-8301	3.6	18
206	Synthesis and self-assembly of macrocyclic mesogens based on 1,10-phenanthroline. <i>Chemistry - an Asian Journal</i> , 2011 , 6, 367-71	4.5	18
205	Near-atomic-scale observation of grain boundaries in a layer-stacked two-dimensional polymer. <i>Science Advances</i> , 2020 , 6, eabb5976	14.3	18
204	Interfacial Covalent Bonds Regulated Electron-Deficient 2D Black Phosphorus for Electrocatalytic Oxygen Reactions. <i>Advanced Materials</i> , 2021 , 33, e2008752	24	18
203	Electron-Transporting Bis(heterotetracenes) with Tunable Helical Packing. <i>Angewandte Chemie</i> , 2018 , 130, 11099-11103	3.6	18
202	Bipolar nitrogen-doped graphene frameworks as high-performance cathodes for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 1588-1594	13	17
201	Polymer Brushes on Graphitic Carbon Nitride for Patterning and as a SERS Active Sensing Layer via Incorporated Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 9797-9805	9.5	17

200	A Nonaqueous Na-Ion Hybrid Micro-Supercapacitor with Wide Potential Window and Ultrahigh Areal Energy Density. <i>Batteries and Supercaps</i> , 2019 , 2, 918-923	5.6	17
199	Torands Revisited: Metal Sequestration and Self-Assembly of Cyclo-2,9-tris-1,10-phenanthroline Hexaaza Macrocycles. <i>Chemistry - A European Journal</i> , 2015 , 21, 8426-34	4.8	17
198	Mapping the excited states of single hexa-peri-benzocoronene oligomers. <i>ACS Nano</i> , 2012 , 6, 3230-5	16.7	17
197	Materials and technologies for multifunctional, flexible or integrated supercapacitors and batteries. <i>Materials Today</i> , 2021 , 48, 176-176	21.8	17
196	Flexible 2D Crystals of Polycyclic Aromatics Stabilized by Static Distortion Waves. <i>ACS Nano</i> , 2016 , 10, 6474-83	16.7	17
195	Electronic Doping of Metal-Organic Frameworks for High-Performance Flexible Micro-Supercapacitors. <i>Small Structures</i> , 2021 , 2, 2000095	8.7	17
194	Robust Two-Dimensional Electronic Properties in Three-Dimensional Microstructures of Rotationally Stacked Turbostratic Graphene. <i>Physical Review Applied</i> , 2017 , 7,	4.3	16
193	Probing optical excitations in chevron-like armchair graphene nanoribbons. <i>Nanoscale</i> , 2017 , 9, 18326-18333	7.7	16
192	Potential-driven molecular tiling of a charged polycyclic aromatic compound. <i>Chemical Communications</i> , 2014 , 50, 10376-8	5.8	16
191	On-Surface Reaction between Tetracarbonitrile-Functionalized Molecules and Copper Atoms. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 27549-27553	3.8	16
190	Controlling the Columnar Orientation of C ₃ -Symmetric Superbenzenes through Alternating Polar/Apolar Substituents. <i>Angewandte Chemie</i> , 2008 , 120, 1727-1730	3.6	16
189	A Curved Graphene Nanoribbon with Multi-Edge Structure and High Intrinsic Charge Carrier Mobility. <i>Journal of the American Chemical Society</i> , 2020 , 142, 18293-18298	16.4	16
188	Helical Ullazine-Quinoxaline-Based Polycyclic Aromatic Hydrocarbons. <i>Chemistry - A European Journal</i> , 2019 , 25, 1345-1352	4.8	16
187	Making large single crystals of 2D MOFs. <i>Nature Materials</i> , 2021 , 20, 122-123	27	16
186	A Lyotropic Liquid-Crystal-Based Assembly Avenue toward Highly Oriented Vanadium Pentoxide/Graphene Films for Flexible Energy Storage. <i>Advanced Functional Materials</i> , 2017 , 27, 1606269	15.6	15
185	Vapor-phase transport deposition, characterization, and applications of large nanographenes. <i>Journal of the American Chemical Society</i> , 2015 , 137, 4453-9	16.4	15
184	Polycyclic aromatic chains on metals and insulating layers by repetitive [3+2] cycloadditions. <i>Nature Communications</i> , 2020 , 11, 1490	17.4	15
183	Wet-Chemical Assembly of 2D Nanomaterials into Lightweight, Microtube-Shaped, and Macroscopic 3D Networks. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 44652-44663	9.5	15

182	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	16.4	15
181	Designer spin order in diradical nanographenes. <i>Nature Communications</i> , 2020 , 11, 6076	17.4	15
180	Maßgeschneiderte Synthese von Graphennanostrukturen mit Zickzack-Rändern. <i>Angewandte Chemie</i> , 2020 , 132, 23591-23607	3.6	15
179	Conjugated Acetylenic Polymers Grafted Cuprous Oxide as an Efficient Z-Scheme Heterojunction for Photoelectrochemical Water Reduction. <i>Advanced Materials</i> , 2020 , 32, e2002486	24	15
178	Noble metal-free two dimensional carbon-based electrocatalysts for water splitting. <i>BMC Materials</i> , 2019 , 1,	6.7	15
177	Synthesis and characterization of [7]triangulene. <i>Nanoscale</i> , 2021 , 13, 1624-1628	7.7	15
176	Makroskopische kristalline 2D-Polymere. <i>Angewandte Chemie</i> , 2018 , 130, 13942-13959	3.6	15
175	Supercapacitors: Stacked-Layer Heterostructure Films of 2D Thiophene Nanosheets and Graphene for High-Rate All-Solid-State Pseudocapacitors with Enhanced Volumetric Capacitance (Adv. Mater. 3/2017). <i>Advanced Materials</i> , 2017 , 29,	24	14
174	Synthesis of Dibenzo[hi,st]ovalene and Its Amplified Spontaneous Emission in a Polystyrene Matrix. <i>Angewandte Chemie</i> , 2017 , 129, 6857-6861	3.6	14
173	Redox-Active Metaphosphate-like Terminals Enable High-Capacity MXene Anodes for Ultrafast Na-ion Storage.. <i>Advanced Materials</i> , 2022 , e2108682	24	14
172	Direct Patterning of Organic Functional Polymers through Conventional Photolithography and Noninvasive Cross-Link Agents. <i>Advanced Materials</i> , 2016 , 28, 5249-54	24	14
171	Edge chlorination of hexa-peri-hexabenzocoronene investigated by density functional theory and vibrational spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 11869-78	3.6	14
170	Improved Hole Injection into Perovskite Light-Emitting Diodes Using A Black Phosphorus Interlayer. <i>Advanced Electronic Materials</i> , 2019 , 5, 1800687	6.4	14
169	On-surface synthesis of nitrogen-doped nanographenes with 5-7 membered rings. <i>Chemical Communications</i> , 2019 , 55, 4731-4734	5.8	13
168	Sulfur-doped porous carbon nanosheets as high performance electrocatalysts for PhotoFuelCells. <i>RSC Advances</i> , 2015 , 5, 27953-27963	3.7	13
167	Ferroelectric field-effect transistors based on solution-processed electrochemically exfoliated graphene. <i>Solid-State Electronics</i> , 2018 , 144, 90-94	1.7	13
166	Two-Dimensional Mesoscale-Ordered Conducting Polymers. <i>Angewandte Chemie</i> , 2016 , 128, 12704-12709	9.6	13
165	Tuning the morphology of chevron-type graphene nanoribbons by choice of annealing temperature. <i>Nano Research</i> , 2018 , 11, 6190-6196	10	13

164	Exfoliation of graphite into graphene in polar solvents mediated by amphiphilic hexa-peri-hexabenzocoronene. <i>Chemistry - an Asian Journal</i> , 2014 , 9, 3125-9	4.5	13
163	Geometric and electronic structures of boron(III)-cored dyes tailored by incorporation of heteroatoms into ligands. <i>Chemistry - an Asian Journal</i> , 2015 , 10, 709-14	4.5	13
162	Two-Dimensional Conjugated Metal-Organic Frameworks for Electrocatalysis: Opportunities and Challenges.. <i>ACS Nano</i> , 2022 ,	16.7	13
161	Microengineered Hollow Graphene Tube Systems Generate Conductive Hydrogels with Extremely Low Filler Concentration. <i>Nano Letters</i> , 2021 , 21, 3690-3697	11.5	13
160	Graphdiyne Electrocatalyst. <i>Joule</i> , 2018 , 2, 1396-1398	27.8	13
159	Polymer Brushes on Hexagonal Boron Nitride. <i>Small</i> , 2019 , 15, e1805228	11	12
158	Highly Crystalline and Semiconducting Imine-Based Two-Dimensional Polymers Enabled by Interfacial Synthesis. <i>Angewandte Chemie</i> , 2020 , 132, 6084-6092	3.6	12
157	Large-area bi-component processing of organic semiconductors by spray deposition and spin coating with orthogonal solvents. <i>Applied Physics A: Materials Science and Processing</i> , 2009 , 95, 15-20	2.6	12
156	Surface-Modified Phthalocyanine-Based Two-Dimensional Conjugated Metal-Organic Framework Films for Polarity-Selective Chemiresistive Sensing. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 18666-18672	16.4	12
155	Sub-Nanometer Width Armchair Graphene Nanoribbon Energy Gap Atlas. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 3228-3235	6.4	11
154	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	16.4	11
153	Ultra-large sheet formation by 1D to 2D hierarchical self-assembly of a Bodilygraft copolymer with a polyphenylene backbone. <i>Polymer Chemistry</i> , 2016 , 7, 1234-1238	4.9	11
152	Electrooptic Switching in Graphene-Based Liquid Crystal Cells. <i>Molecular Crystals and Liquid Crystals</i> , 2011 , 543, 187/[953]-193/[959]	0.5	11
151	Dipyrene-Fused Dicyclopenta[,]naphthalenes. <i>Journal of Organic Chemistry</i> , 2020 , 85, 215-223	4.2	11
150	Synthesis, Photophysical Characterization, and Self-Assembly of Hexa-peri-hexabenzocoronene/Benzothiadiazole Donor-Acceptor Structure. <i>ChemPlusChem</i> , 2017 , 82, 1030-1033	2.8	10
149	Giant thermal expansion of a two-dimensional supramolecular network triggered by alkyl chain motion. <i>Communications Materials</i> , 2020 , 1, 8	6	10
148	Band Gap of Atomically Precise Graphene Nanoribbons as a Function of Ribbon Length and Termination. <i>ChemPhysChem</i> , 2019 , 20, 2348-2353	3.2	10
147	Exploring the interaction between graphene derivatives and metal ions as a key step towards graphene-inorganic nanohybrids. <i>Chemistry - an Asian Journal</i> , 2013 , 8, 410-3	4.5	10

146	Ballistic electron microscopy of nanographene layers. <i>Nano Letters</i> , 2008 , 8, 4259-64	11.5	10
145	Competitive Metal Coordination of Hexaaminotriphenylene on Cu(111) by Intrinsic Copper Versus Extrinsic Nickel Adatoms. <i>Chemistry - A European Journal</i> , 2019 , 25, 1975-1983	4.8	10
144	One-Pot Synthesis of Boron-Doped Polycyclic Aromatic Hydrocarbons via 1,4-Boron Migration. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 2833-2838	16.4	10
143	Reduced Intrinsic Non-Radiative Losses Allow Room-Temperature Triplet Emission from Purely Organic Emitters. <i>Advanced Materials</i> , 2021 , 33, e2101844	24	10
142	Local Spin-state Tuning of Iron Single-Atom Electrocatalyst by S-coordinated Doping for Kinetics-boosted Ammonia Synthesis.. <i>Advanced Materials</i> , 2022 , e2202240	24	10
141	Ultraschnelle Schichtablösung von Graphit zu qualitativ hochwertigem Graphen durch Nutzung von Wechselstrom. <i>Angewandte Chemie</i> , 2017 , 129, 6770-6776	3.6	9
140	Reversible Anion-Driven Switching of an Organic 2D Crystal at a Solid-Liquid Interface. <i>Small</i> , 2017 , 13, 1702379	11	9
139	On-surface synthesis of super-heptazethrene. <i>Chemical Communications</i> , 2020 , 56, 7467-7470	5.8	9
138	On-Surface Dehydro-Diels-Alder Reaction of Dibromo-bis(phenylethynyl)benzene. <i>Journal of the American Chemical Society</i> , 2020 , 142, 1721-1725	16.4	9
137	Nanographenes and Graphene Nanoribbons with Zigzag-Edged Structures. <i>Advances in Polymer Science</i> , 2017 , 1-32	1.3	9
136	On-surface Synthesis of a Chiral Graphene Nanoribbon with Mixed Edge Structure. <i>Chemistry - an Asian Journal</i> , 2020 , 15, 3807-3811	4.5	9
135	Detachment Dynamics of Graphene Nanoribbons on Gold. <i>ACS Nano</i> , 2019 , 13, 689-697	16.7	9
134	Pyrene-Fused s-Indacene. <i>Journal of Organic Chemistry</i> , 2018 , 83, 6633-6639	4.2	9
133	Construction of single-crystalline supramolecular networks of perchlorinated hexa-peri-hexabenzocoronene on Au(111). <i>Journal of Chemical Physics</i> , 2015 , 142, 101911	3.9	8
132	Graphene flakes at the SiO ₂ /organic-semiconductor interface for high-mobility field-effect transistors. <i>Organic Electronics</i> , 2015 , 27, 221-226	3.5	8
131	On-Surface Synthesis of NBN-Doped Zigzag-Edged Graphene Nanoribbons. <i>Angewandte Chemie</i> , 2020 , 132, 8958-8964	3.6	8
130	Wetting Properties of Graphene Aerogels. <i>Scientific Reports</i> , 2020 , 10, 1916	4.9	8
129	On-Surface Synthesis of Cumulene-Containing Polymers via Two-Step Dehalogenative Homocoupling of Dibromomethylene-Functionalized Tribenzoazulene. <i>Angewandte Chemie</i> , 2020 , 132, 13383-13389	3.6	8

128	Supramolecular Nanostructures of Structurally Defined Graphene Nanoribbons in the Aqueous Phase. <i>Angewandte Chemie</i> , 2018 , 130, 3424-3429	3.6	8
127	Derivatizing Tribenzothiophene-Fused Hexa-peri-hexabenzocoronenes with Tunable Optoelectronic Properties. <i>Chemistry - an Asian Journal</i> , 2016 , 11, 2107-12	4.5	8
126	An ionic self-assembly approach towards sandwich-like graphene/SnO ₂ /graphene nanosheets for enhanced lithium storage. <i>RSC Advances</i> , 2014 , 4, 57869-57874	3.7	8
125	Sulfur-Annulated Hexa-peri-hexabenzocoronene Decorated with Phenylthio Groups at the Periphery. <i>Angewandte Chemie</i> , 2015 , 127, 2970-2974	3.6	8
124	A Modular Cascade Synthetic Strategy Toward Structurally Constrained Boron-Doped Polycyclic Aromatic Hydrocarbons. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 25695-25700	16.4	8
123	Bottom-Up Synthesis of Nitrogen-Doped Polycyclic Aromatic Hydrocarbons. <i>Synlett</i> , 2020 , 31, 211-222	2.2	8
122	Synthese von Vinyl-verknüpften zweidimensionalen konjugierten Polymeren via Horner-Wadsworth-Emmons-Reaktion. <i>Angewandte Chemie</i> , 2020 , 132, 23827-23832	3.6	8
121	Persistent peri-Heptacene: Synthesis and In Situ Characterization. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 13853-13858	16.4	8
120	Collective All-Carbon Magnetism in Triangulene Dimers**. <i>Angewandte Chemie</i> , 2020 , 132, 12139-12145	3.6	8
119	Tailoring Magnetic Features in Zigzag-Edged Nanographenes by Controlled Diels-Alder Reactions. <i>Chemistry - A European Journal</i> , 2020 , 26, 7497-7503	4.8	8
118	Monitoring the On-Surface Synthesis of Graphene Nanoribbons by Mass Spectrometry. <i>Analytical Chemistry</i> , 2017 , 89, 7485-7492	7.8	7
117	Azaarene Dimers. <i>Chemistry - A European Journal</i> , 2019 , 25, 7285-7291	4.8	7
116	Force-Activated Isomerization of a Single Molecule. <i>Journal of the American Chemical Society</i> , 2020 , 142, 10673-10680	16.4	7
115	Dirac Nodal Arc Semimetal PtSn ₄ : An Ideal Platform for Understanding Surface Properties and Catalysis for Hydrogen Evolution. <i>Angewandte Chemie</i> , 2019 , 131, 13241-13246	3.6	7
114	Nitrogen-Enriched Core-Shell Structured Fe/Fe ₃ C-C Nanorods as Advanced Electrocatalysts for Oxygen Reduction Reaction (Adv. Mater. 11/2012). <i>Advanced Materials</i> , 2012 , 24, 1398-1398	24	7
113	Nonplanar Ladder-Type Polycyclic Conjugated Molecules: Structures and Solid-State Properties. <i>Crystal Growth and Design</i> , 2015 , 15, 3332-3338	3.5	7
112	Optical switching studies of an azobenzene rigidly linked to a hexa-peri-hexabenzocoronene derivative in solution and at a solid-liquid interface. <i>Applied Physics A: Materials Science and Processing</i> , 2008 , 93, 277-283	2.6	7
111	Scalable Manufacturing of MXene Films: Moving toward Industrialization. <i>Matter</i> , 2020 , 3, 335-336	12.7	7

110	Thiophene-Based Conjugated Acetylenic Polymers with Dual Active Sites for Efficient Co-Catalyst-Free Photoelectrochemical Water Reduction in Alkaline Medium. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 18876-18881	16.4	7
109	Mussel-Inspired Nitrogen-Doped Porous Carbon as Anode Materials for Sodium-Ion Batteries. <i>Energy Technology</i> , 2019 , 7, 1800763	3.5	7
108	One-Pot Synthesis of Boron-Doped Polycyclic Aromatic Hydrocarbons via 1,4-Boron Migration. <i>Angewandte Chemie</i> , 2021 , 133, 2869-2874	3.6	7
107	Two-dimensional nanostructures by the assembly of n-type tetrazaanthracene-based conjugated molecules. <i>ChemPhysChem</i> , 2013 , 14, 2954-60	3.2	6
106	Hexa-benzocoronene with two extra K-regions in an -configuration. <i>Chemical Science</i> , 2020 , 11, 12816-12821	10.21	6
105	Defective Nanographenes Containing Seven-Five-Seven (7-5-7)-Membered Rings. <i>Journal of the American Chemical Society</i> , 2021 , 143, 2353-2360	16.4	6
104	Interfacial Synthesis of Layer-Oriented 2D Conjugated Metal-Organic Framework Films toward Directional Charge Transport. <i>Journal of the American Chemical Society</i> , 2021 , 143, 13624-13632	16.4	6
103	Aqueous high-voltage all 3D-printed micro-supercapacitors with ultrahigh areal capacitance and energy density. <i>Journal of Energy Chemistry</i> , 2021 ,	12	6
102	NBN-Doped Bis-Tetracene and Peri-Tetracene: Synthesis and Characterization. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 26115-26121	16.4	6
101	Molecular Engineering of Conjugated Acetylenic Polymers for Efficient Cocatalyst-free Photoelectrochemical Water Reduction. <i>Angewandte Chemie</i> , 2019 , 131, 10476-10482	3.6	5
100	Carbon Nanoparticles' Impact on Processability and Physical Properties of Epoxy Resins-A Comprehensive Study Covering Rheological, Electrical, Thermo-Mechanical, and Fracture Properties (Mode I and II). <i>Polymers</i> , 2019 , 11,	4.5	5
99	High-performance deformable photoswitches with p-doped graphene as the top window electrode. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 37-40	7.1	5
98	S-enriched porous polymer derived N-doped porous carbons for electrochemical energy storage and conversion. <i>Frontiers of Chemical Science and Engineering</i> , 2018 , 12, 346-357	4.5	5
97	Multiwavelength Raman spectroscopy of ultranarrow nanoribbons made by solution-mediated bottom-up approach. <i>Physical Review B</i> , 2019 , 100,	3.3	5
96	Zusammenrücken und Stapeln: von atmenden Poren zu dreidimensionaler ionischer Selbstorganisation unter elektrochemischer Kontrolle. <i>Angewandte Chemie</i> , 2014 , 126, 13165-13168	3.6	5
95	Large polycyclic aromatic hydrocarbons for application in donor-acceptor photovoltaics. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2012 , 209, 785-789	1.6	5
94	An Efficient Rechargeable Aluminium-Amine Battery Working Under Quaternization Chemistry.. <i>Angewandte Chemie - International Edition</i> , 2022 ,	16.4	5
93	Bioresponsive, Electroactive, and Inkjet-Printable Graphene-Based Inks. <i>Advanced Functional Materials</i> , 2022 , 32, 2105028	15.6	5

92	Functional Electrolytes: Game Changers for Smart Electrochemical Energy Storage Devices. <i>Small Science</i> , 2100080		5
91	Topochemical Synthesis of Two-Dimensional Transition-Metal Phosphides Using Phosphorene Templates. <i>Angewandte Chemie</i> , 2020, 132, 473-478	3.6	5
90	Ambient-Stable Two-Dimensional Titanium Carbide (MXene) Enabled by Iodine Etching. <i>Angewandte Chemie</i> , 2021, 133, 8771-8775	3.6	5
89	Advanced design of cathodes and interlayers for high-performance lithium-selenium batteries. <i>SusMat</i> , 2021, 1, 393-412		5
88	Polycyclic Aromatic Hydrocarbons Containing A Pyrrolopyridazine Core. <i>ChemPlusChem</i> , 2019, 84, 613-618		4
87	Dynamical nuclear decoupling of electron spins in molecular graphenoid radicals and biradicals. <i>Physical Review B</i> , 2020, 101,	3.3	4
86	Oligophenyls with Multiple Disulfide Bridges as Higher Homologues of Dibenzo[c,e][1,2]dithiin: Synthesis and Application in Lithium-Ion Batteries. <i>Chemistry - A European Journal</i> , 2020, 26, 8007-8011	4.8	4
85	Three-dimensional Carbon Nitride/Graphene Framework as a High-Performance Cathode for Lithium-Ion Batteries. <i>Chemistry - an Asian Journal</i> , 2016, 11, 1194-8	4.5	4
84	Subliming the Unsublimable: How to Deposit Nanographenes. <i>Angewandte Chemie</i> , 2009, 121, 4672-4674	3.6	4
83	Preparation of Propargyl-terminated Polylactide by the Bulk Ring-opening Polymerization. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2009, 46, 937-942	2.2	4
82	Active site engineering of single-atom carbonaceous electrocatalysts for the oxygen reduction reaction.. <i>Chemical Science</i> , 2021, 12, 15802-15820	9.4	4
81	Viologen-Immobilized 2D Polymer Film Enabling Highly Efficient Electrochromic Device for Solar-Powered Smart Window. <i>Advanced Materials</i> , 2021, 34, e2106073	24	4
80	Sulfur-Doped Nanographenes Containing Multiple Subhelicenes. <i>Organic Letters</i> , 2021, 23, 2069-2073	6.2	4
79	Energy Storage: A Lyotropic Liquid-Crystal-Based Assembly Avenue toward Highly Oriented Vanadium Pentoxide/Graphene Films for Flexible Energy Storage (Adv. Funct. Mater. 12/2017). <i>Advanced Functional Materials</i> , 2017, 27,	15.6	3
78	Nanostructured Activated Carbons for Supercapacitors 2015, 1-34		3
77	Ambient Bistable Single Dipole Switching in a Molecular Monolayer. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 14049-14053	16.4	3
76	Covalently Interlocked Cyclohexa-m-phenylenes and Their Assembly: En Route to Supramolecular 3D Carbon Nanostructures. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 10602-10606	16.4	3
75	Heteroatom-Doped Carbon Nanotubes as Advanced Electrocatalysts for Oxygen Reduction Reaction 2015, 1-16		3

74	Graphene as Transparent Electrodes for Solar Cells 2015 , 249-280		3
73	Glial cell responses on tetrapod-shaped graphene oxide and reduced graphene oxide 3D scaffolds in brain in vitro and ex vivo models of indirect contact. <i>Biomedical Materials (Bristol)</i> , 2020 , 16, 015008	3.5	3
72	Persistent peri-Heptacene: Synthesis and In Situ Characterization. <i>Angewandte Chemie</i> , 2021 , 133, 13972-13973	3.13973	
71	Real-time study of on-water chemistry: Surfactant monolayer-assisted growth of a crystalline quasi-2D polymer. <i>Chem</i> , 2021 ,	16.2	3
70	Molecularly Engineered Black Phosphorus Heterostructures with Improved Ambient Stability and Enhanced Charge Carrier Mobility. <i>Advanced Materials</i> , 2021 , 33, e2105694	24	3
69	High-performance Bifunctional Electrocatalysts of Pd-decoration on Carbon Nanoarchitecture for Indirect Releasing of H ₂ Stored in Formate. <i>Small Structures</i> ,	8.7	3
68	On-water surface synthesis of charged two-dimensional polymer single crystals via the irreversible Katritzky reaction 2022 , 1, 69-76		3
67	Supercapacitors Based on Graphene and Related Materials 2015 , 227-252		2
66	Broadband Photodetectors: Demonstration of a Broadband Photodetector Based on a Two-Dimensional Metal-Organic Framework (Adv. Mater. 9/2020). <i>Advanced Materials</i> , 2020 , 32, 2070071-24	124	2
65	Synthesis of Block Copolymers Based on N-alkyl Substituted Acrylamide via Combination of Reversible Addition-Fragmentation Transfer Polymerization and Click Chemistry. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2013 , 50, 65-71	2.2	2
64	Shape-Persistent Graphite Replica of Metal Wires. <i>Advanced Materials</i> , 2017 , 29, 1603732	24	2
63	Electrocatalysis: Strongly Coupled 3D Hybrids of N-doped Porous Carbon Nanosheet/CoNi Alloy-Encapsulated Carbon Nanotubes for Enhanced Electrocatalysis (Small 44/2015). <i>Small</i> , 2015 , 11, 5939-5939	11	2
62	Ab initio characterization of graphene nanoribbons and their polymer precursors. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 104023	1.8	2
61	Vibrational excitations in molecular layers probed by ballistic electron microscopy. <i>Nanotechnology</i> , 2011 , 22, 435701	3.4	2
60	Interfacial synthesis of crystalline quasi-two-dimensional polyaniline thin films for high-performance flexible on-chip micro-supercapacitors. <i>Chinese Chemical Letters</i> , 2021 ,	8.1	2
59	Synthesis and Characterization of AIE-Active B _N -Coordinated Phenalene Complexes. <i>Organic Materials</i> , 2020 , 02, 240-247	1.9	2
58	Electrically powered repeatable air explosions using microtubular graphene assemblies. <i>Materials Today</i> , 2021 , 48, 7-7	21.8	2
57	NBN-doped nanographene embedded with five- and seven-membered rings on Au(111) surface*. <i>Chinese Physics B</i> , 2021 , 30, 056802	1.2	2

56	Multiscale Modeling Strategy of 2D Covalent Organic Frameworks Confined at an Air-Water Interface. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 26411-26420	9.5	2
55	A Two-Dimensional Polyimide-Graphene Heterostructure with Ultra-fast Interlayer Charge Transfer. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 13859-13864	16.4	2
54	Silicium-kompatible Mikro-Superkondensatoren. <i>Angewandte Chemie</i> , 2016 , 128, 6244-6246	3.6	2
53	A Nitrogen-Rich 2D sp ² -Carbon-Linked Conjugated Polymer Framework as a High-Performance Cathode for Lithium-Ion Batteries. <i>Angewandte Chemie</i> , 2018 , 131, 859	3.6	2
52	On-Surface Synthesis and Characterization of Super-nonazethrene. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 8314-8319	6.4	2
51	On-Surface Synthesis of a Dicationic Diazahexabenzocoronene Derivative on the Au(111) Surface. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 25551-25556	16.4	2
50	Cyclodehydrogenation in the Synthesis of Graphene-Type Molecules 2012 , 373-420		2
49	Conductive 2D Conjugated Metal-Organic Framework Thin Films: Synthesis and Functions for (Opto-)electronics. <i>Small Structures</i> , 2100210	8.7	2
48	Cove-Edged Graphene Nanoribbons with Incorporation of Periodic Zigzag-Edge Segments.. <i>Journal of the American Chemical Society</i> , 2021 ,	16.4	2
47	Graphene and Porous Nanocarbon Materials for Supercapacitor Applications 2015 , 301-338		1
46	Ambient Bistable Single Dipole Switching in a Molecular Monolayer. <i>Angewandte Chemie</i> , 2020 , 132, 14153-14157	3.6	1
45	One-pot synthesis of dicyclopenta-fused peropyrene via a fourfold alkyne annulation. <i>Beilstein Journal of Organic Chemistry</i> , 2020 , 16, 791-797	2.5	1
44	Kovalent gebundene, ineinander verkettete Cyclohexa-m-phenylene und ihre Selbstorganisation: Auf dem Weg zu supramolekularen 3D-Kohlenstoffnanostrukturen. <i>Angewandte Chemie</i> , 2017 , 129, 10738-10742	3.6	1
43	Doped Graphene as Electrocatalysts for Oxygen Reduction Reaction 2015 , 17-42		1
42	Carbon Nanotubes and Graphene for Silicon-Based Solar Cells 2015 , 233-248		1
41	Tailored Graphene-Type Molecules by Chemical Synthesis 2012 , 39-69		1
40	One-step preparation of novel conjugated porous polymer with tubular structure. <i>Science China Chemistry</i> , 2013 , 56, 1112-1118	7.9	1
39	Self-Assembly: Self-Assembly and Microstructural Control of a Hexa-peri-hexabenzocoroneneBerylene Diimide Dyad by Solvent Vapor Diffusion (Small 20/2011). <i>Small</i> , 2011 , 7, 2840-2840	11	1

38	Sniffing out cancer in the breath: detection of non-polar volatile compounds through carrier scattering in random networks of carbon nanotubes 2009 ,		1
37	On-Surface Formation of Cyano-Vinylene Linked Chains by Knoevenagel Condensation. <i>Chemistry - A European Journal</i> , 2021 , 27, 17336-17340	4.8	1
36	A Modular Cascade Synthetic Strategy Toward Structurally Constrained Boron-Doped Polycyclic Aromatic Hydrocarbons. <i>Angewandte Chemie</i> , 2021 , 133, 25899	3.6	1
35	Mass Transfer in Boronate Ester 2D COF Single Crystals. <i>Small</i> , 2021 , e2104392	11	1
34	Acidic Electrolytes: High-Performance Metal-Free Nanosheets Array Electrocatalyst for Oxygen Evolution Reaction in Acid (Adv. Funct. Mater. 31/2020). <i>Advanced Functional Materials</i> , 2020 , 30, 2070210	15.6	1
33	Vibrational signature of the graphene nanoribbon edge structure from high-resolution electron energy-loss spectroscopy. <i>Nanoscale</i> , 2020 , 12, 19681-19688	7.7	1
32	Synthesis and Self-Assembly Behavior of Double Ullazine-Based Polycyclic Aromatic Hydrocarbons. <i>Organic Materials</i> , 2021 , 03, 198-203	1.9	1
31	Synthetic tuning of the quantum properties of open-shell radicaloids. <i>CheM</i> , 2021 , 7, 1363-1378	16.2	1
30	Raman spectroscopy of holey nanographene C216. <i>Journal of Raman Spectroscopy</i> ,	2.3	1
29	Scalable one-step production of electrochemically exfoliated graphene decorated with transition metal oxides for high-performance supercapacitors. <i>Nanoscale</i> , 2021 , 13, 15859-15868	7.7	1
28	Self-Organization of Nanographenes	405-453	1
27	Large Acene Derivatives with B-N Lewis Pair Doping: Synthesis, Characterization, and Application.. <i>Organic Letters</i> , 2022 ,	6.2	1
26	Solution Synthesis and Characterization of a Long and Curved Graphene Nanoribbon with Hybrid Cove-Armchair-Gulf Edge Structures.. <i>Advanced Science</i> , 2022 , e2200708	13.6	1
25	An Anode-free Zn-graphite Battery.. <i>Advanced Materials</i> , 2022 , e2201957	24	1
24	Anion-induced self-assembly of positively charged polycyclic aromatic hydrocarbons towards nanostructures with controllable two-dimensional morphologies. <i>CrystEngComm</i> , 2016 , 18, 877-880	3.3	0
23	Extended peri-Acenes: Recent Progress in Synthesis and Characterization. <i>European Journal of Organic Chemistry</i> ,	3.2	0
22	Thiophen-basierte konjugierte acetylenische Polymere mit dualen aktiven Zentren ff effiziente Cokatalysator-freie photoelektrochemische Wasserreduktion im alkalischen Medium. <i>Angewandte Chemie</i> , 2021 , 133, 19025-19031	3.6	0
21	Fabrication of sulfur-doped cove-edged graphene nanoribbons on Au(111)*. <i>Chinese Physics B</i> , 2021 , 30, 077306	1.2	0

20	Facile assembly of layer-interlocked graphene heterostructures as flexible electrodes for Li-ion batteries. <i>Faraday Discussions</i> , 2021 , 227, 321-331	3.6	o
19	Solvent-mediated engineering of copper-metalated acetylenic polymer scaffolds with enhanced photoelectrochemical performance. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 9729-9734	13	o
18	Surface-Modified Phthalocyanine-Based Two-Dimensional Conjugated MetalOrganic Framework Films for Polarity-Selective Chemiresistive Sensing. <i>Angewandte Chemie</i> , 2021 , 133, 18814-18820	3.6	o
17	Protein-based (bio)materials: a way toward high-performance graphene enzymatic biosensors. <i>Journal of Materials Chemistry C</i> , 2022 , 10, 5466-5473	7.1	o
16	In-Plane Oriented Two-Dimensional Conjugated MetalOrganic Framework Films for High-Performance Humidity Sensing 1146-1153		o
15	Controlled Morphologies by Molecular Design and Nano-Imprint Lithography. <i>Advances in Polymer Science</i> , 2017 , 215-242	1.3	
14	Two-dimensional electronic spectroscopy of graphene nanoribbons in organic solution. <i>EPJ Web of Conferences</i> , 2019 , 205, 05005	0.3	
13	Nanocarbon/Metal Oxide Hybrids for Lithium Ion Batteries 2015 , 87-118		
12	Precursor-Controlled Synthesis of Nanocarbons for Lithium Ion Batteries 2015 , 59-85		
11	Spectroscopic Analysis of Nanocarbon-Based non-precious Metal Catalyst for ORR 2015 , 117-148		
10	Nanocarbon-Based Hybrids as Cathode Electrocatalysts for Microbial Fuel Cells 2015 , 215-232		
9	Heteroatom-Doped Nanoporous Carbon for Electrocatalysis 2015 , 43-74		
8	Nanocarbon-Based Nonprecious-Metal Electrocatalysts for Oxygen Reduction in Various Electrolytes 2015 , 75-116		
7	Rücktitelbild: Two-Dimensional Sandwich-Type, Graphene-Based Conjugated Microporous Polymers (Angew. Chem. 37/2013). <i>Angewandte Chemie</i> , 2013 , 125, 10044-10044	3.6	
6	Ultrafast carrier dynamics in graphene and graphene nanostructures. <i>Terahertz Science & Technology</i> , 2020 , 13, 135-148	0.3	
5	Inherent Resistivity of Graphene to Strong THz Fields. <i>Springer Proceedings in Physics</i> , 2015 , 623-625	0.2	
4	Innenrücktitelbild: Identification of Catalytic Sites for Oxygen Reduction in Metal/Nitrogen-Doped Carbons with Encapsulated Metal Nanoparticles (Angew. Chem. 4/2020). <i>Angewandte Chemie</i> , 2020 , 132, 1759-1759	3.6	
3	A Two-Dimensional Polyimide-Graphene Heterostructure with Ultra-fast Interlayer Charge Transfer. <i>Angewandte Chemie</i> , 2021 , 133, 13978-13983	3.6	

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1 Initial Coupling and Reaction Progression of Directly Deposited Biradical Graphene Nanoribbon Monomers on Iodine-Passivated Versus Pristine Ag(111). *Chemistry*, **2022**, 4, 259-269

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