

Andreas Hirsch

List of Publications by Year in Descending Order

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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.

665
papers

34,797
citations

89
h-index

162
g-index

793
ext. papers

37,329
ext. citations

7.6
avg. IF

7.6
L-index

#	Paper	IF	Citations
665	Influence of substituents of Perylenebisimides on the surface energy and wettability: A systematic structure-property relationship analysis. <i>Dyes and Pigments</i> , 2022 , 199, 110044	4.6	
664	Supraparticles with a Mechanically Triggerable Color-Change-Effect to Equip Coatings with the Ability to Report Damage.. <i>Small</i> , 2022 , e2107513	11	2
663	Extended EDTA Bola-Amphiphile: Putrescine-Based 2G Dendron Functionalized with Perylene Diimide. <i>ChemistrySelect</i> , 2021 , 6, 12981-12984	1.8	0
662	Diastereoselective formation of homochiral flexible perylene bisimide cyclophanes and their hybrids with fullerenes.. <i>Chemical Science</i> , 2021 , 12, 15491-15502	9.4	1
661	Host-Guest Systems on the Surface of Functionalized Superparamagnetic Iron Oxide Nanoparticles (SPIONs) Utilizing Hamilton Receptors and Cyanurate Derivative Molecules. <i>Chemistry - A European Journal</i> , 2021 , 27, 16429-16439	4.8	
660	Carbon Nano-onions: Potassium Intercalation and Reductive Covalent Functionalization. <i>Journal of the American Chemical Society</i> , 2021 , 143, 18997-19007	16.4	0
659	Controlling the Formation of Sodium/Black Phosphorus Intercalation Compounds Towards High Sodium Content. <i>Batteries and Supercaps</i> , 2021 , 4, 1304-1309	5.6	1
658	Helically and Linearly Fused Rylenediimide-Hexabenzocoronenes. <i>Chemistry - A European Journal</i> , 2021 , 27, 6511-6521	4.8	3
657	Perylene diimide-based chemosensors emerging in recent years: From design to sensing. <i>TrAC - Trends in Analytical Chemistry</i> , 2021 , 138, 116237	14.6	11
656	Covalent Bisfunctionalization of Two-Dimensional Molybdenum Disulfide. <i>Angewandte Chemie</i> , 2021 , 133, 13596-13604	3.6	0
655	Sequential Tether-Directed Synthesis of New [3 : 2 : 1] Hexakis-Adducts of C with a Mixed Octahedral Addition Pattern. <i>Chemistry - A European Journal</i> , 2021 , 27, 7677-7686	4.8	3
654	Covalent 2D Patterning, Local Electronic Structure and Polarization Switching of Graphene at the Nanometer Level. <i>Chemistry - A European Journal</i> , 2021 , 27, 8709-8713	4.8	2
653	Strong Electronic Communication in Linearly Elongated Rylenes Featuring Tunable Bridges. <i>Chemistry - A European Journal</i> , 2021 , 27, 8325-8336	4.8	1
652	Acid Catalysis with Alkane/Water Microdroplets in Ionic Liquids. <i>Jacs Au</i> , 2021 , 1, 786-794		4
651	Covalent Bisfunctionalization of Two-Dimensional Molybdenum Disulfide. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 13484-13492	16.4	11
650	Hypervalent Iodine Compounds as Versatile Reagents for Extremely Efficient and Reversible Patterning of Graphene with Nanoscale Precision. <i>Advanced Materials</i> , 2021 , 33, e2101653	24	3
649	Tunable Photocatalytic Activity of PEO-Stabilized ZnO Polyoxometalate Nanostructures in Aqueous Solution. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2002130	4.6	2

648	A Functional Hexaphenylbenzene Library Comprising of One, Three, and Six Peripheral Rylene-Diimide Substituents. <i>Chemistry - A European Journal</i> , 2021 , 27, 1670-1679	4.8	3
647	A straightforward reductive approach for the deoxygenation, activation and functionalization of ultrashort single-walled carbon nanotubes. <i>Carbon</i> , 2021 , 171, 768-776	10.4	2
646	Interface Amorphization of Two-Dimensional Black Phosphorus upon Treatment with Diazonium Salts. <i>Chemistry - A European Journal</i> , 2021 , 27, 3361-3366	4.8	9
645	A Small Dye Puzzle: π -Conjugation of Perylenes with External Aromatic Compounds via Imidazo-Quinoxaline Bridges. <i>ChemPhotoChem</i> , 2021 , 5, 36-42	3.3	3
644	A Small Dye Puzzle: π -Conjugation of Perylenes with External Aromatic Compounds via Imidazo-Quinoxaline Bridges. <i>ChemPhotoChem</i> , 2021 , 5, 3-3	3.3	
643	π -Extended Diaza[7]helicenes by Hybridization of Naphthalene Diimides and Hexa-peri-hexabenzocoronenes. <i>Chemistry - A European Journal</i> , 2021 , 27, 2332-2341	4.8	10
642	Smart Shell-by-Shell Nanoparticles with Tunable Perylene Fluorescence in the Organic Interlayer. <i>Chemistry - A European Journal</i> , 2021 , 27, 1655-1669	4.8	1
641	Highly Selective Non-Covalent On-Chip Functionalization of Layered Materials. <i>Advanced Electronic Materials</i> , 2021 , 7, 2000564	6.4	2
640	A general concept for highly efficient covalent laser patterning of graphene based on silver carboxylates. <i>Chemical Communications</i> , 2021 , 57, 4654-4657	5.8	1
639	Synthesis and crystal packing of perylene-derivatives with extreme sterically demanding pentaphenylbenzene bay-substituents. <i>Chemical Communications</i> , 2021 , 57, 583-586	5.8	1
638	Non-Covalent Postfunctionalization of Dye Layers on TiO ₂ - A Tool for Enhancing Injection in Dye-Sensitized Solar Cells. <i>Chemistry - A European Journal</i> , 2021 , 27, 5041-5050	4.8	2
637	Molecular Solar Thermal Batteries through Combination of Magnetic Nanoparticle Catalysts and Tailored Norbornadiene Photoswitches. <i>Chemistry - A European Journal</i> , 2021 , 27, 4993-5002	4.8	8
636	Covalent Patterning of 2D MoS ₂ . <i>Chemistry - A European Journal</i> , 2021 , 27, 13117-13122	4.8	2
635	Evolution of Graphene Patterning: From Dimension Regulation to Molecular Engineering. <i>Advanced Materials</i> , 2021 , 33, e2104060	24	4
634	Tunable Photoswitching in Norbornadiene (NBD)/Quadricyclane (QC) - Fullerene Hybrids. <i>Chemistry - A European Journal</i> , 2021 , 27, 14501-14507	4.8	2
633	Covalent and non-covalent chemistry of 2D black phosphorus. <i>RSC Advances</i> , 2021 , 11, 26093-26101	3.7	0
632	Molecular embroidering of graphene. <i>Nature Communications</i> , 2021 , 12, 552	17.4	9
631	Tuning Conductivity and Spin Dynamics in Few-Layer Graphene via In Situ Potassium Exposure. <i>Physica Status Solidi (B): Basic Research</i> , 2020 , 257, 2000368	1.3	1

630	Encapsulation of Hydrophobic Drugs in Shell-by-Shell Coated Nanoparticles for Radio-and Chemotherapy-An In Vitro Study. <i>Bioengineering</i> , 2020 , 7,	5.3	7
629	Ultralong Spin Lifetime in Light Alkali Atom Doped Graphene. <i>ACS Nano</i> , 2020 , 14, 7492-7501	16.7	6
628	Spatially Resolved Bottom-Side Fluorination of Graphene by Two-Dimensional Substrate Patterning. <i>Angewandte Chemie</i> , 2020 , 132, 6766-6771	3.6	7
627	Dynamic Covalent Formation of Concave Disulfide Macrocycles Mechanically Interlocked with Single-Walled Carbon Nanotubes. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 18774-18785	16.4	10
626	Mechanische Verzahnung von einwandigen Kohlenstoffnanoröhren durch dynamisch-kovalente Bildung von konkaven Disulfidmakrozyklen. <i>Angewandte Chemie</i> , 2020 , 132, 18933-18945	3.6	2
625	Shell-by-Shell Functionalization of Inorganic Nanoparticles. <i>Chemistry - A European Journal</i> , 2020 , 26, 8483-8498	4.8	6
624	Defect Engineering of Two-Dimensional Molybdenum Disulfide. <i>Chemistry - A European Journal</i> , 2020 , 26, 6535-6544	4.8	17
623	Spatially Resolved Bottom-Side Fluorination of Graphene by Two-Dimensional Substrate Patterning. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 6700-6705	16.4	15
622	Innenrücktitelbild: Highly Efficient and Reversible Covalent Patterning of Graphene: 2D-Management of Chemical Information (Angew. Chem. 14/2020). <i>Angewandte Chemie</i> , 2020 , 132, 5901-5901	3.6	6
621	Production and processing of graphene and related materials. <i>2D Materials</i> , 2020 , 7, 022001	5.9	179
620	Few-layer Black Phosphorous Catalyzes Radical Additions to Alkenes Faster than Low-valence Metals. <i>ChemCatChem</i> , 2020 , 12, 2226-2232	5.2	6
619	Mechanical cleaning of graphene using in situ electron microscopy. <i>Nature Communications</i> , 2020 , 11, 1743	17.4	19
618	Fractal-seaweeds type functionalization of graphene. <i>Carbon</i> , 2020 , 158, 435-448	10.4	9
617	Understanding the Electron-Doping Mechanism in Potassium-Intercalated Single-Walled Carbon Nanotubes. <i>Journal of the American Chemical Society</i> , 2020 , 142, 2327-2337	16.4	10
616	Highly Efficient and Reversible Covalent Patterning of Graphene: 2D-Management of Chemical Information. <i>Angewandte Chemie</i> , 2020 , 132, 5651-5655	3.6	6
615	Highly Efficient and Reversible Covalent Patterning of Graphene: 2D-Management of Chemical Information. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 5602-5606	16.4	23
614	Mixed Organic Ligand Shells: Controlling the Nanoparticle Surface Morphology toward Tuning the Optoelectronic Properties. <i>Small</i> , 2020 , 16, e1903729	11	5
613	Photoswitchable Norbornadiene-Quadracyclane Interconversion Mediated by Covalently Linked C. <i>Chemistry - A European Journal</i> , 2020 , 26, 5220-5230	4.8	13

612	Noncovalent Functionalization and Passivation of Black Phosphorus with Optimized Perylene Diimides for Hybrid Field Effect Transistors. <i>Advanced Materials Interfaces</i> , 2020 , 7, 2001290	4.6	10
611	Recent Advances in Graphene Patterning. <i>ChemPlusChem</i> , 2020 , 85, 1655-1668	2.8	16
610	Self-assembled hybrid organic-MoS-nanoparticle catalyst for light energy conversion. <i>Nanoscale</i> , 2020 , 12, 22952-22957	7.7	2
609	Quantifying the Covalent Functionalization of Black Phosphorus. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 20230-20234	16.4	12
608	Quantifizierung der kovalenten Funktionalisierung von schwarzem Phosphor. <i>Angewandte Chemie</i> , 2020 , 132, 20406-20411	3.6	2
607	Covalently Doped Graphene Superlattices: Spatially Resolved Supratopic- and Janus-Binding. <i>Journal of the American Chemical Society</i> , 2020 , 142, 16016-16022	16.4	13
606	Kovalente 2D-Strukturierung von Graphen durch räumlich aufgelöstes Laserschreiben/Lesen/Löschen. <i>Angewandte Chemie</i> , 2020 , 132, 23529-23534	3.6	1
605	Covalent 2D-Engineering of Graphene by Spatially Resolved Laser Writing/Reading/Erasing. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 23329-23334	16.4	12
604	Direct Laser Writing on Graphene with Unprecedented Efficiency of Covalent Two-Dimensional Functionalization. <i>Journal of the American Chemical Society</i> , 2020 , 142, 21926-21931	16.4	7
603	Efficient Cyclization of the Norbornadiene-Quadricyclane Interconversion Mediated by a Magnetic [Fe ₃ O ₄ @Salphen] Nanoparticle Catalyst. <i>ChemPhotoChem</i> , 2020 , 4, 52-58	3.3	15
602	Porphyrin-rylene-diimide-hexabenzocoronene triads. <i>Journal of Porphyrins and Phthalocyanines</i> , 2020 , 24, 268-277	1.8	10
601	Coronenoelices with Dynamic Chirality. <i>Chemistry - A European Journal</i> , 2020 , 26, 14100-14108	4.8	8
600	Monolayer black phosphorus by sequential wet-chemical surface oxidation. <i>RSC Advances</i> , 2019 , 9, 3570-3576	3.7	22
599	Liquid phase exfoliation of carbonate-intercalated layered double hydroxides. <i>Chemical Communications</i> , 2019 , 55, 3315-3318	5.8	30
598	Gitteröffnung durch reduktive kovalente Volumen-Funktionalisierung von schwarzem Phosphor. <i>Angewandte Chemie</i> , 2019 , 131, 5820-5826	3.6	10
597	Lattice Opening upon Bulk Reductive Covalent Functionalization of Black Phosphorus. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 5763-5768	16.4	42
596	Reductive diazotation of carbon nanotubes: an experimental and theoretical selectivity study. <i>Chemical Science</i> , 2019 , 10, 706-717	9.4	3
595	Electronic Communication in Confined Space Coronas of Shell-by-Shell Structured Al ₂ O ₃ Nanoparticle Hybrids Containing Two Layers of Functional Organic Ligands. <i>Chemistry - A European Journal</i> , 2019 , 25, 11864-11875	4.8	4

594	Covalent Inter-Synthetic-Carbon-Allotrope Hybrids. <i>Accounts of Chemical Research</i> , 2019 , 52, 2037-2045	24.3	12
593	Surface chemistry of 2,3-dibromosubstituted norbornadiene/quadricyclane as molecular solar thermal energy storage system on Ni(111). <i>Journal of Chemical Physics</i> , 2019 , 150, 184706	3.9	10
592	Covalent Inter-Carbon-Allotrope Architectures Consisting of the Endohedral Fullerene Sc ₃ N@C ₈₀ and Single-Walled Carbon Nanotubes. <i>Angewandte Chemie</i> , 2019 , 131, 8142-8146	3.6	7
591	Covalent Inter-Carbon-Allotrope Architectures Consisting of the Endohedral Fullerene Sc N@C and Single-Walled Carbon Nanotubes. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 8058-8062	16.4	13
590	Hamilton Receptor-Mediated Self-Assembly of Orthogonally Functionalized Au and TiO ₂ Nanoparticles. <i>Helvetica Chimica Acta</i> , 2019 , 102, e1900015	2	5
589	Few layer 2D pnictogens catalyze the alkylation of soft nucleophiles with esters. <i>Nature Communications</i> , 2019 , 10, 509	17.4	45
588	Superoleophilic Magnetic Iron Oxide Nanoparticles for Effective Hydrocarbon Removal from Water. <i>Advanced Functional Materials</i> , 2019 , 29, 1805742	15.6	22
587	Controlled Catalytic Energy Release of the Norbornadiene/Quadricyclane Molecular Solar Thermal Energy Storage System on Ni(111). <i>Journal of Physical Chemistry C</i> , 2019 , 123, 7654-7664	3.8	14
586	Interface Molecular Engineering for Laminated Monolithic Perovskite/Silicon Tandem Solar Cells with 80.4% Fill Factor. <i>Advanced Functional Materials</i> , 2019 , 29, 1901476	15.6	27
585	Titelbild: Covalent Inter-Carbon-Allotrope Architectures Consisting of the Endohedral Fullerene Sc ₃ N@C ₈₀ and Single-Walled Carbon Nanotubes (Angew. Chem. 24/2019). <i>Angewandte Chemie</i> , 2019 , 131, 7963-7963	3.6	
584	A Straightforward Approach to Multifunctional Graphene. <i>Chemistry - A European Journal</i> , 2019 , 25, 1321813223	18.1	33
583	Controlling the Degree of Functionalization: In-Depth Quantification and Side-Product Analysis of Diazonium Chemistry on SWCNTs. <i>Chemistry - A European Journal</i> , 2019 , 25, 12761-12768	4.8	11
582	Revealing Hidden UV Instabilities in Organic Solar Cells by Correlating Device and Material Stability. <i>Advanced Energy Materials</i> , 2019 , 9, 1902124	21.8	39
581	A top-down strategy identifying molecular phase stabilizers to overcome microstructure instabilities in organic solar cells. <i>Energy and Environmental Science</i> , 2019 , 12, 1078-1087	35.4	73
580	Characterizing the maximum number of layers in chemically exfoliated graphene. <i>Scientific Reports</i> , 2019 , 9, 19480	4.9	9
579	Modular Covalent Graphene Functionalization with C ₆₀ and the Endohedral Fullerene Sc ₃ N@C ₈₀ : A Facile Entry to Synthetic-Carbon-Allotrope Hybrids. <i>Angewandte Chemie</i> , 2019 , 131, 826-830	3.6	2
578	Exohedral Addition Chemistry of the Fullerenide Anions C ⁻ and C ²⁻ . <i>Chemistry - A European Journal</i> , 2019 , 25, 5186-5201	4.8	9
577	Multifunctional and Tunable Surfaces Based on Pyrene Functionalized Nanoparticles. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1801930	4.6	11

576	The reactivity of reduced graphene depends on solvation. <i>2D Materials</i> , 2019 , 6, 025009	5.9	10
575	Modular Covalent Graphene Functionalization with C and the Endohedral Fullerene Sc N@C : A Facile Entry to Synthetic-Carbon-Allotrope Hybrids. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 816-820	16.4	11
574	Synergy of Catechol-Functionalized Zinc Oxide Nanorods and Porphyrins in Layer-by-Layer Assemblies. <i>Chemistry - A European Journal</i> , 2018 , 24, 7896-7905	4.8	6
573	Manufacturing Nanoparticles with Orthogonally Adjustable Dispersibility in Hydrocarbons, Fluorocarbons, and Water. <i>ChemistryOpen</i> , 2018 , 7, 282-287	2.3	17
572	Fundamental Insights into the Reductive Covalent Cross-Linking of Single-Walled Carbon Nanotubes. <i>Journal of the American Chemical Society</i> , 2018 , 140, 3352-3360	16.4	30
571	Evidence of Tailoring the Interfacial Chemical Composition in Normal Structure Hybrid Organohalide Perovskites by a Self-Assembled Monolayer. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 5511-5518	9.5	27
570	Isomerically Pure Star-Shaped Triphenylene-Perylene Hybrids Involving Highly Extended π Conjugation. <i>Chemistry - A European Journal</i> , 2018 , 24, 4671-4679	4.8	6
569	Sequential Tether-Directed Synthesis of Pentakis-Adducts of C60 with a Mixed [3:2] Octahedral Addition Pattern. <i>European Journal of Organic Chemistry</i> , 2018 , 2018, 2579-2586	3.2	5
568	Manufacturing Nanoparticles with Orthogonally Adjustable Dispersibility in Hydrocarbons, Fluorocarbons, and Water. <i>ChemistryOpen</i> , 2018 , 7, 277	2.3	
567	Zweidimensionale Chemie jenseits von Graphen: das aufstrebende Gebiet der Funktionalisierung von Molybdendisulfid und schwarzem Phosphor. <i>Angewandte Chemie</i> , 2018 , 130, 4421-4437	3.6	20
566	Post-Graphene 2D Chemistry: The Emerging Field of Molybdenum Disulfide and Black Phosphorus Functionalization. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 4338-4354	16.4	156
565	Fullerene Building Blocks with Tailor-Made Solubility and New Insights into Their Hierarchical Self-Assembly. <i>Chemistry - A European Journal</i> , 2018 , 24, 14088-14100	4.8	8
564	Highly Efficient Encapsulation and Phase Separation of Apolar Molecules by Magnetic Shell-by-Shell-Coated Nanocarriers in Water. <i>Chemistry - A European Journal</i> , 2018 , 24, 13589-13595	4.8	9
563	Oxo-Functionalized Graphene: A Versatile Precursor for Alkylated Graphene Sheets by Reductive Functionalization. <i>Chemistry - A European Journal</i> , 2018 , 24, 13348-13354	4.8	13
562	Understanding the Role of Surface Charge in Cellular Uptake and X-ray-Induced ROS Enhancing of Au-FeO Nanoheterodimers.. <i>ACS Applied Bio Materials</i> , 2018 , 1, 2002-2011	4.1	12
561	Exfoliation of Graphene by Dendritic Water-Soluble Zinc Phthalocyanine Amphiphiles in Polar Media. <i>Chemistry - A European Journal</i> , 2018 , 24, 18696-18704	4.8	3
560	Diastereospecific and Highly Site-Selective Functionalization of C Fullerene by a Reaction with Diethyl N-Arylaziridine-2,3-dicarboxylates. <i>Journal of Organic Chemistry</i> , 2018 , 83, 14146-14151	4.2	7
559	Electronic Properties of Air-Sensitive Nanomaterials Probed with Microwave Impedance Measurements. <i>Physica Status Solidi (B): Basic Research</i> , 2018 , 255, 1800250	1.3	1

558	Optimized single-layer MoS field-effect transistors by non-covalent functionalisation. <i>Nanoscale</i> , 2018 , 10, 17557-17566	7.7	18
557	Effect of TCNQ Layer Cover on Oxidation Dynamics of Black Phosphorus. <i>Physica Status Solidi - Rapid Research Letters</i> , 2018 , 12, 1800179	2.5	2
556	Selective reduction of SWCNTs [concepts and insights]. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 3937-3947	4.1	8
555	Perylene-based non-covalent functionalization of 2D materials. <i>FlatChem</i> , 2017 , 1, 89-103	5.1	39
554	Robust Two-Dimensional Electronic Properties in Three-Dimensional Microstructures of Rotationally Stacked Turbostratic Graphene. <i>Physical Review Applied</i> , 2017 , 7,	4.3	16
553	Front Cover: Synthesis of Magnetic Molecular Complexes with Fullerene Anchor Groups (Eur. J. Org. Chem. 4/2017). <i>European Journal of Organic Chemistry</i> , 2017 , 2017, 760-760	3.2	
552	Precise determination of graphene functionalization by in situ Raman spectroscopy. <i>Nature Communications</i> , 2017 , 8, 15192	17.4	105
551	Synthesis, Structural Characterization, and Crystal Packing of the Elusive Pentachlorinated Azafullerene C ₆₀ NCl. <i>Chemistry - A European Journal</i> , 2017 , 23, 9014-9017	4.8	5
550	Anchoring of a Carboxyl-Functionalized Norbornadiene Derivative to an Atomically Defined Cobalt Oxide Surface. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 11508-11518	3.8	12
549	Synthesis of Magnetic Molecular Complexes with Fullerene Anchor Groups. <i>European Journal of Organic Chemistry</i> , 2017 , 2017, 790-798	3.2	5
548	Catalytically Triggered Energy Release from Strained Organic Molecules: The Surface Chemistry of Quadricyclane and Norbornadiene on Pt(111). <i>Chemistry - A European Journal</i> , 2017 , 23, 1613-1622	4.8	20
547	The first molecular dumbbell consisting of an endohedral ScN@C and an empty C-fullerene building block. <i>Chemical Communications</i> , 2017 , 53, 7886-7889	5.8	9
546	Formation of Perfluoroalkyl Fullerene Alkylphosphonic Acid Self-Assembled Monolayers on Aluminum Oxide. <i>ECS Journal of Solid State Science and Technology</i> , 2017 , 6, M3163-M3167	2	3
545	Degree of functionalisation dependence of individual Raman intensities in covalent graphene derivatives. <i>Scientific Reports</i> , 2017 , 7, 45165	4.9	37
544	Suppression of Hysteresis Effects in Organohalide Perovskite Solar Cells. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1700007	4.6	44
543	Unifying Principles of the Reductive Covalent Graphene Functionalization. <i>Journal of the American Chemical Society</i> , 2017 , 139, 5175-5182	16.4	48
542	Exploring the Formation of Black Phosphorus Intercalation Compounds with Alkali Metals. <i>Angewandte Chemie</i> , 2017 , 129, 15469-15475	3.6	12
541	Exploring the Formation of Black Phosphorus Intercalation Compounds with Alkali Metals. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 15267-15273	16.4	53

540	Noncovalent Functionalization and Charge Transfer in Antimonene. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 14389-14394	16.4	68
539	Noncovalent Functionalization and Charge Transfer in Antimonene. <i>Angewandte Chemie</i> , 2017 , 129, 14581-14586	16.4	68
538	Bulbous gold-carbon nanodot hybrid nanoclusters for cancer therapy. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 8591-8599	7.3	11
537	Controlled Functionalization of Graphene by Oxo-addends. <i>ChemistrySelect</i> , 2017 , 2,	1.8	2
536	Reductive Functionalization of Graphenides With Nickel(II) Porphyrin Diazonium Compounds. <i>Physica Status Solidi - Rapid Research Letters</i> , 2017 , 11, 1700306	2.5	2
535	Rigid, Branched Porphyrin Antennas: Control over Cascades of Unidirectional Energy Funneling and Charge Transfer. <i>Journal of the American Chemical Society</i> , 2017 , 139, 11779-11788	16.4	25
534	Direct Covalent Coupling of Porphyrins to Graphene. <i>Journal of the American Chemical Society</i> , 2017 , 139, 11760-11765	16.4	54
533	Highly Regioselective Alkylation of Hexabenzocoronenes: Fundamental Insights into the Covalent Chemistry of Graphene. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 12184-12190	16.4	25
532	Electronic and Magnetic Properties of Black Phosphorus. <i>Physica Status Solidi (B): Basic Research</i> , 2017 , 254, 1700232	1.3	14
531	Highly Regioselective Alkylation of Hexabenzocoronenes: Fundamental Insights into the Covalent Chemistry of Graphene. <i>Angewandte Chemie</i> , 2017 , 129, 12352-12358	3.6	14
530	Individualization and Stabilization of Zinc Oxide Nanorods by Covalent Functionalization with Positively Charged Catechol Derivatives. <i>Chemistry - A European Journal</i> , 2017 , 23, 17257-17268	4.8	7
529	A generic interface to reduce the efficiency-stability-cost gap of perovskite solar cells. <i>Science</i> , 2017 , 358, 1192-1197	33.3	418
528	Chemical functionalization and characterization of graphene-based materials. <i>Chemical Society Reviews</i> , 2017 , 46, 4464-4500	58.5	285
527	Fundamental Insights into the Degradation and Stabilization of Thin Layer Black Phosphorus. <i>Journal of the American Chemical Society</i> , 2017 , 139, 10432-10440	16.4	181
526	Diameter dependence of the defect-induced Raman modes in functionalized carbon nanotubes. <i>Carbon</i> , 2017 , 112, 1-7	10.4	21
525	Few-Layer Antimonene by Liquid-Phase Exfoliation. <i>Angewandte Chemie</i> , 2016 , 128, 14557-14561	3.6	53
524	Few-Layer Antimonene by Liquid-Phase Exfoliation. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 14345-14349	16.4	299
523	Quantitative Determination and Comparison of the Surface Binding of Phosphonic Acid, Carboxylic Acid, and Catechol Ligands on TiO ₂ Nanoparticles. <i>Chemistry - A European Journal</i> , 2016 , 22, 13506-12	4.8	44

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