

Yunbin Hu

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

1,442
citations

516710

16
h-index

501196

28
g-index

28
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docs citations

28
times ranked

1891
citing authors

#	ARTICLE	IF	CITATIONS
1	Tuning the electron-deficient core of a non-fullerene acceptor to achieve over 17% efficiency in a single-junction organic solar cell. <i>Energy and Environmental Science</i> , 2020, 13, 2459-2466.	30.8	324
2	Benzo- α -Fused Double [7]Carbohelicene: Synthesis, Structures, and Physicochemical Properties. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 3374-3378.	13.8	177
3	Amplification of Dissymmetry Factors in β -Extended [7]- and [9]Helicenes. <i>Journal of the American Chemical Society</i> , 2021, 143, 4661-4667.	13.7	119
4	β -Extended Pyrene-Fused Double [7]Carbohelicene as a Chiral Polycyclic Aromatic Hydrocarbon. <i>Journal of the American Chemical Society</i> , 2019, 141, 12797-12803.	13.7	113
5	Raman Fingerprints of Atomically Precise Graphene Nanoribbons. <i>Nano Letters</i> , 2016, 16, 3442-3447.	9.1	83
6	Negatively Curved Nanographene with Heptagonal and [5]Helicene Units. <i>Journal of the American Chemical Society</i> , 2020, 142, 14814-14819.	13.7	81
7	Bandgap Engineering of Graphene Nanoribbons by Control over Structural Distortion. <i>Journal of the American Chemical Society</i> , 2018, 140, 7803-7809.	13.7	68
8	Role of Edge Engineering in Photoconductivity of Graphene Nanoribbons. <i>Journal of the American Chemical Society</i> , 2017, 139, 7982-7988.	13.7	64
9	Semitransparent solar cells with over 12% efficiency based on a new low bandgap fluorinated small molecule acceptor. <i>Materials Chemistry Frontiers</i> , 2019, 3, 2483-2490.	5.9	55
10	A- β -A structured non-fullerene acceptors for stable organic solar cells with efficiency over 17%. <i>Science China Chemistry</i> , 2022, 65, 1374-1382.	8.2	53
11	Benzo-Fused Periacenes or Double Helicenes? Different Cyclodehydrogenation Pathways on Surface and in Solution. <i>Journal of the American Chemical Society</i> , 2019, 141, 7399-7406.	13.7	49
12	An asymmetric small molecule acceptor for organic solar cells with a short circuit current density over 24 mA cm ⁻² . <i>Journal of Materials Chemistry A</i> , 2020, 8, 15984-15991.	10.3	37
13	A new non-fullerene acceptor based on the combination of a heptacyclic benzothiadiazole unit and a thiophene-fused end group achieving over 13% efficiency. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 26557-26563.	2.8	28
14	Furan-containing double tetraoxa[7]helicene and its radical cation. <i>Chemical Communications</i> , 2020, 56, 15181-15184.	4.1	24
15	Compressing Double [7]Helicene by Successive Charging with Electrons. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 15923-15927.	13.8	21
16	Spiro-fused bis-hexa-peri-hexabenzocoronene. <i>Chemical Communications</i> , 2018, 54, 13575-13578.	4.1	20
17	Effects of Oxygen Position in the Alkoxy Substituents on the Photovoltaic Performance of A-DA α ² D-A Type Pentacyclic Small Molecule Acceptors. <i>ACS Energy Letters</i> , 2022, 7, 2373-2381.	17.4	19
18	Fine-tuning the energy levels and morphology via fluorination and thermal annealing enable high efficiency non-fullerene organic solar cells. <i>Materials Chemistry Frontiers</i> , 2020, 4, 3310-3318.	5.9	17

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19	S-Shaped Double Helicene Diimides: Synthesis, Self-Assembly, and Mechanofluorochromism. <i>Organic Letters</i> , 2021, 23, 6183-6188.	4.6	16
20	Water-Soluble Nanoparticles with Twisted Double [7]Carbohelicene for Lysosome-Targeted Cancer Photodynamic Therapy. <i>Small</i> , 2022, 18, e2105365.	10.0	15
21	Untying the Bundles of Solution-Synthesized Graphene Nanoribbons for Highly Capacitive Micro-Supercapacitors. <i>Advanced Functional Materials</i> , 2022, 32, 2109543.	14.9	13
22	X-shaped thiadiazole-containing double [7]heterohelicene with strong chiroptical response and π -stacked homochiral assembly. <i>Chemical Communications</i> , 2021, 57, 5566-5569.	4.1	10
23	Dicyclopentaannulated Hexa-peri-hexabenzocoronenes with a Singlet Biradical Ground State. <i>Angewandte Chemie</i> , 2021, 133, 11400-11404.	2.0	8
24	Electron-Deficient Contorted Polycyclic Aromatic Hydrocarbon via One-Pot Annulative π -Extension of Perylene Diimide. <i>Organic Letters</i> , 2022, 24, 2414-2419.	4.6	8
25	Graphene nanoribbons on hexagonal boron nitride: Deposition and transport characterization. <i>Applied Physics Letters</i> , 2019, 114, 173101.	3.3	6
26	Compressing Double [7]Helicene by Successive Charging with Electrons. <i>Angewandte Chemie</i> , 2020, 132, 16057-16061.	2.0	6
27	Double Thia/sulfone[7]helicenes with Controlled Photophysical and Chiroptical Properties by Heteroatom Variation. <i>Chemistry - an Asian Journal</i> , 2022, 17, .	3.3	5