
Jishan Wu

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Full Professor | Chemistry

EDUCATION	Doctor of Philosophy in Chemistry / Max-Planck Institute for Polymer Research , with Professor Klaus Müllen	2004
	Master of Science in Polymer Chemistry / Changchun Institute of Applied Chemistry, CAS , with Professor Xianhong Wang & Professor Fosong Wang	2000
	Bachelor of Science in Chemistry / Wuhan University	1997

CAREER	Provost's Chair Professor	2024–Now
	Department of Chemistry / National University of Singapore	
	Full Professor	2017–Now
	Department of Chemistry / National University of Singapore	
	Dean's Chair Professor	2014–2017
	Department of Chemistry / National University of Singapore	
	Associate Professor	2012–2014
	Department of Chemistry / National University of Singapore	
	Senior Scientist I/II (joint appointment)	2010–2018
Institute of Materials Research and Engineering, A*STAR		
Assistant Professor	2007–2011	
Department of Chemistry / National University of Singapore		
Research Associate	2005–2007	
Department of Chemistry and Biochemistry / UCLA with Sir Fraser Stoddart		
Project Leader	2004–2005	
Max-Planck Institute for Polymer Research with Professor Klaus Müllen		

SELECTED AWARDS AND HONORS	Provost's Chair Professorship	2024
	For NUS tenured Professors with international recognition in the field and superior performance to other faculty members at the rank of Professor Andrews Lectureship from the University of New South Wales, Australia	2024
	The lectures began in 1960 to bring eminent lecturers to UNSW to deliver a series of talks.	
	National Research Foundation Investigatorship	2019
	For outstanding mid-career investigators with 2.8 million S\$ grant for 5 years	
	Outstanding Scientist Award	
	For outstanding researchers in NUS Faculty of Science	
	Lead PI of an MOE Tier 3 programme	2015
	A highly competitive research programme from the Ministry of Education of Singapore, with 10 million S\$ grant for 5 years	
	Outstanding Scientist Award	2015
	For outstanding researchers in NUS Faculty of Science	
BASF-Singapore National Institute of Chemistry Award in Materials Science	2012	
An industry-sponsored award for outstanding researchers in Singapore		
NUS Young Researcher Award	2012	
For outstanding young researchers in the National University of Singapore		
Singapore Young Scientist Award	2011	
Singapore presidential award for outstanding young scientists in Singapore		

RESEARCH INTEREST	π -Conjugated macrocycles and molecular cages
	Topological molecular carbons
	2D and 3D aromaticity
	Synesthetic organic spin chemistry
	Magnetism and magnetic materials
	Organic near infrared dyes and bioimaging
	Organic electronics, photonics, spintronics and quantum information processing

MAJOR RESEARCH GRANTS	A*STAR MTC IRG grant	2023–2026
	Twisted carbon nanobelts with persistent chiroptical properties for photonics and electronics (TPV: 841,000 S\$)	
	MOE Tier 2 grant	2023–2026
	Toward 3D global aromaticity rules (TPV: 480,519S\$)	
	A*STAR AME grant	2020–2023
	Solution-processed nanographene based distributed feedback lasers (TPV: 674,000 S\$)	
	MOE Tier 2 grant	2019–2022
	Metal organic radical frameworks (TPV: 700,000 S\$)	
	MOE Tier 2 grant	2019–2022
	Bottom-up synthesis of post-graphene organic Dirac materials (TPV: 900,000 S\$)	
	NRF Investigatorship	2019–2024
	Toward carbon-base magnets (TPV: 2.8 million S\$)	
	AMAT-NUS Corp Lab	2018–2023
	Atomic layer deposition of carbons (TPV: 498,000 S\$)	
	MOE Tier 3 programme	2015–2020
	Open-shell polycyclic hydrocarbons for electronics, photonics and spintronics (TPV: 10 million S\$)	
MOE Tier 2 grant	2014–2017	
Stable π -radicals as new charge and spin transporting materials (TPV: 782,000 S\$)		
MOE Tier 2 grant	2012–2015	
Porphyrin-based NIR dyes for high-efficient solar cells (TPV: 490,000 S\$)		
A*STAR BMRC-NMRC joint program	2011–2014	
Stable near infrared dye based fluorescent probe-library for biolabelling, biosensing and bioimaging (TPV: 532,000 S\$)		
Defence Science and Technology Agency, DIRP	2009–2011	
Soluble and stable laser absorbing dyes (TPV: 556,000 S\$)		
A*STAR SERC TSRP	2009–2012	
Graphene-based composites and thin-films for electrical applications (TPV: 764,000 S\$)		
NUS Young Investigator Award	2008–2011	
Nano-sized graphene, graphyne and graphdiyne as potential materials for electronics (TPV: 500,000 S\$)		

SUMMARY OF OUTPUTS	1 monograph (" Diradicaloids ") and 365+ articles including <i>Nat. Chem.</i> (×4) <i>Chem</i> (×8) <i>Nat. Synth.</i> (×3) <i>Nat. Commun.</i> (×6) <i>Sci. Adv.</i> (×3) <i>J. Am. Chem. Soc.</i> (×43) <i>Angew. Chem. Int. Ed.</i> (×49) <i>Adv. Mater.</i> (×7) <i>Chem. Soc. Rev.</i> (×3) <i>Acc. Chem. Res.</i> (×2)	
SUPERVISION	Current group: 9 PDFs / 15 PhD Students Alumni: 27 PDFs, 26 PhD Students, 3 MSc Students, 19 Undergraduate Students; 27 Alumni have become Professors/Lecturers in academia	
ESTEEM AND ACADEMIC ACTIVITIES	<p>Invited Seminars Over 80 Invited/Keynote/Plenary Lectures</p> <p>Organization of Scientific Meetings Chair of the 10th Singapore International Chemistry Conference Organizers/Co-organizers of symposia at ICPP series and ICMAT series several times</p> <p>Editor and Editorial Board Members Advisory board member of <i>Chem</i> (Cell Press, IF: 22.804; 2020-) Associate Editor of <i>Materials Today Chemistry</i> (Elsevier, IF: 8.301; 2021-2022) Advisory board member of <i>JACS</i> (ACS, IF: 15.0, 2024-)</p>	
TEACHING	Polymer Chemistry I/II Advanced Polymer Science Advanced Organic Synthesis Advanced Organic Materials	UG-L3 UG-L4 PG PG
SELECTED SERVICE ROLES (at NUS)	University Promotion and Tenure Committee Member Deputy Head (Research) of the Department of Chemistry, NUS Member of the Faculty Promotion and Tenure Committee	2023– 2018–2021 2017–2021
FULL LIST OF AWARDS, PRIZES AND FELLOWSHIPS	Provost's Chair Professorship Andrews Lectureship from the University of New South Wales, Australia Singapore National Institute of Chemistry (SNIC) Fellow NRF Investigatorship Award Highly Cited Researchers (Cross Field) list from Clarivate Analytics Asian Core Program Lectureship Award from Korea Asian Core Program Lectureship Award from Japan Asian Core Program Lectureship Award from Thailand Asian Core Program Lectureship Award from Taiwan NUS Faculty of Science Outstanding Scientist Award Lead PI of MOE Tier 3 programme Dean's Chair Professorship Outstanding Chemist Award / Department of Chemistry / NUS Distinguished Lectureship Award from the Chemical Society of Japan Asian Core Program Lectureship Award from Hong Kong Invited Lecturer of Asian Excellence from the Japanese Society of Polymer Science BASF-Singapore National Institute of Chemistry Award in Materials Science NUS Young Researcher Award Young Scientist Award, Faculty of Science / NUS Young Chemist Award / Department of Chemistry / NUS Singapore Young Scientist Award Asian Core Program Lectureship Award from Japan NUS Young Investigator Award	2024 2024 2020 2019 2018 2017 2017 2016 2016 2015 2015 2014 2013 2013 2012 2012 2012 2012 2011 2011 2011 2009 2008

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371. T. Jiao, C.-H. Wu, Y.-S. Zhang, X. Miao, S. Wu, S.-D. Jiang*, and J. Wu*, "Unveiling the Mysterious Hydrocarbon – Clar's Goblet", preprint posted on *ChemRxiv*, 2024, DOI: <https://doi.org/10.26434/chemrxiv-2024-ks6xm>; accepted by *Nature Chemistry*.
370. L. Jiao, Y. Zou, W. Fan, Y. Han, Q. Zhou, J. Shao and J. Wu*, "Aggregation-Free, Highly Soluble CN-Terminated Dicyclopentadiene-Fused Rylenes", under revision in *J. Am. Chem. Soc.*.
369. S. Song, A. P. Solé, A. Matěj, G. Li, O. Stetsovych, D. Soler, H. Yang, M. Telychko, J. Li, M. Kumar, J. Brabec, L. Veis, J. Wu*, P. Jelinek*, J. Lu*, "Highly-Entangled Polyradical Nanographene with Coexisting Strong Correlation and Topological Frustration", *Nat. Chem.* 2024, 16, 938–944 (Highlighted by [ChemistryViews](#)).
368. Y. Zou, L. Jiao, Y. Han, L. Ren, Q. Zhou, J. Wu*, "Peri-pentacene and Peri-hexacene Diradicaloids", *J. Am. Chem. Soc.* 2024, 146, 27293–27298.
367. L. Ren, Y. Han, L. Jiao, Y. Zou and J. Wu*, "Highly Strained, Fully π -Conjugated Porphyrin Cyclophanes: Template-free Synthesis and Global Aromaticity", *Angew. Chem. Int. Ed.* 2024, 63, e202418532 (VIP paper).
366. Q. Zhou, W. Yuan, Y. Li, Y. Han, L. Bao, W. Fan, L. Jiao, Y. Zhao, Y. Ni, Y. Zou, H.-B. Yang and J. Wu*, "[5]Helicene Based π -Conjugated Macrocycles with Persistent Figure-Eight and Möbius Shapes: Facile Synthesis, Chiral Resolution and Bright Circularly Polarized Luminescence", *Angew. Chem. Int. Ed.* 2024, 63, e202417749.
365. W. Jiang, S. Wu, D. Xu, L. Tu, Y. Xie*, P. Pasqués-Gramage, P. G. Boj, M. A. Díaz-García, F. Li,* J. Wu* and Z. Li*, "Stable Xanthene Radicals and Their Heavy Chalcogen Analogues Showing Tunable Doublet Emission from Green to Near-infrared", *Angew. Chem. Int. Ed.* 2024, 63, e202418762 (VIP paper).
364. G.-F. Huo, W.-T. Xu, J. Hu, Y. Han, W. Fan, W. Wang, Z. Sun,* H.-B. Yang,* and J. Wu*, "Perylene-Embedded Helical Nanographenes with Emission up to 1010 nm: Synthesis, Structures, and Chiroptical Properties", *Angew. Chem. Int. Ed.* 2024, 63, e202416707.
363. L. Wang, W. Niu, D. Tian,* T. Jiao, L. Zhang, X. Hou, Y. Han, Y. Zou, J. Wu*, G. Li*, "Stable Mono-radical and Triplet Diradicals Based on Allylic Radical-Embedded All-benzenoid Polycyclic Hydrocarbons", *Angew. Chem. Int. Ed.* 2024, e202415746.
362. X. Chen, Y. Zhu, Y. Xu, M. Rao, P. Pang, B. Zhang, C. Xu, W. Ni, G. Li*, J. Wu*, M. Li*, Y. Chen, and Y. Geng, "Design of Ultra-Narrow Bandgap Polymer Acceptors for High-Sensitivity Flexible All-Polymer Short-Wavelength Infrared Photodetectors", *Angew. Chem. Int. Ed.* 2024, 63, e202413965.
361. S. Wu, Y. Han, Y. Ni, X. Hou, H. Wei, Z. Li* and J. Wu*, "Unveiling Möbius/Hückel Topology and Aromaticity in A Core-Expanded [10]Annulene at Different Oxidation States." *Angew. Chem. Int. Ed.* 2024, 63, e202320144.
360. G. Huo, W.-T. Xu, Y. Han, J. Zhu, X. Hou, W. Fan, Y. Ni, S. Wu, H.-B. Yang,* and J. Wu*, "Expanded Azahelicenes with Large Dissymmetry Factors." *Angew. Chem. Int. Ed.* 2024, 63, e202403149 (Highlighted by [ChemistryViews](#)).
359. T. Shen, P. Pasqués-Gramage, J. M. Villalvilla, P. G. Boj, J. A. Quintana, Y. Zou, Y. Han, L. Jiao, L. Ren, M. A. Díaz-García* and J. Wu*, "[4]Rhombene: Solution-Phase Synthesis and Application for Distributed Feedback Lasers With Emission Beyond 830 nm." *Angew. Chem. Int. Ed.* 2024, 63, e202410828.
358. L. Ren, Y. Han, X. Hou, Y. Zou, T. Jiao, and J. Wu*, "Cyclooctatetrathiophene Annulated Multicyclic Macrocycles." *CCS Chem.* 2024, 6, 2758–2769.
357. L. Ren, Y. Han, X. Hou, Y. Ni, and J. Wu*, "[2,2]Paracyclophane Bridged, Thiophene Based Macrocycles: Synthesis and Electronic Properties in Different Redox States." *Chem. Eur. J.* 2024, e202304088.
356. S. Wu, J. Yang, Y. Ni, Y. Han, W. Chen*, and J. Wu* "Azatriangulenetrione as Anode Material for Sodium-Ion Batteries: Reversible Redox Chemistry Mediated by Lone Pair Electrons." *ACS Appl. Mater. Interfaces* 2024, 16, 39349–39355.
355. Y. Zhao, Y. Zhang, J. Yang*, Y. Chen, G. Pu, Y. Wang, D. Li, W. Fan, M. Fang, J. Wu* and Z. Li*, "The Role of Locally Excited State and Charge Transfer State in Organic Room Temperature Phosphorescence and Corresponding Applications", *Adv. Opt. Mater.* 2024, 12, 2400980.
354. S. Moles Quintero, J. C. Mira-Martínez, Y. Zou, M. Díaz-García, P. G. Boj, J. Wu*, M. A. Díaz-García*, J. M. Marín-Beloqui* and J. Casado*, "Triplet formation inhibits amplified spontaneous emission in perylene-based polycyclic aromatic hydrocarbons." *J. Mater. Chem. C* 2024, 12, 5239-5246.
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353. Y. Wang, S.-C. Chen, S. Tai, D. Wang, Y. Ma, **J. Wu*** and M.-J. Lin*, “Improving the performance and stability of perovskite solar cells via surface passivation of phthalimide N-alkylammonium iodides.” **J. Mater. Chem. C** **2024**, *12*, 6540-6547.

352. J. Kim, D. C. Bain, V. Ding, K. Majumder, D. Windemuller, J. Feng, **J. Wu**, S. Patil, J. Anthony, W. Kim* and A. J. Musser*, “Coherent photoexcitation of entangled triplet pair states”, **Nat. Chem.** **2024**, *16*, 1680–1686.

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351. W. Fan, T. M. Fukunaga, S. Wu, Y. Han, Q. Zhou, J. Wang, Z. Li, X. Hou, H. Wei, Y. Ni, H. Isobe,* **J. Wu***, “Synthesis and chiral resolution of a triply twisted Möbius carbon nanobelt”, **Nat. Synth.** **2023**, *2*, 880–887 (see [News & Views: Q. Miao, J. Casado, “Paradromic molecules”, Nat. Synth. 2023, 2, 808–810](#)).

350. T. Jiao, Y. Ni, T. Xu, X. Hou, S. Wu, L. Ren, Z. Sun*, **J. Wu***, “Synthesis of monolayer and persistent bilayer graphene fragments via a radical-mediated coupling approach”, **Nat. Synth.** **2023**, *2*, 1104–1115.

349. G.-F. Huo, T. M. Fukunaga, X. Hou, Y. Han, W. Fan, S. Wu,* H. Isobe,* **J. Wu***, “Facile Synthesis and Chiral Resolution of Expanded Helicenes with up to 35 cata-Fused Benzene Rings”, **Angew. Chem. Int. Ed.** **2023**, *62*, e20221809 (selected as Hot Paper).

348. Y. Zou, X. Hou, H. Wei, J. Shao, Q. Jiang, L. Ren, **J. Wu***, “Circumcoronenes”, **Angew. Chem. Int. Ed.** **2023**, *62*, e202301041 (selected as a VIP paper, highlighted by *Nat. Rev. Mater.*:

<https://www.nature.com/articles/s41578-023-00555-z> and featured in **Angew. Chem.** **2023**, e202305289).

347. Q. Zhou, X. Hou, J. Wang, Y. Ni, W. Fan, Z. Li, X. Wei, K. Li, W. Yuan, Z. Xu, M. Zhu, Y. Zhao, Z. Sun*, **J. Wu***, “A Fused [5]Helicene Dimer with a Figure-Eight Topology: Synthesis, Chiral Resolution, and Electronic Properties”, **Angew. Chem. Int. Ed.** **2023**, *62*, e202302266 (selected as Hot Paper).

346. T. Shen, D. Dijkstra, A. Farrando-Pérez, P. G. Boj, J. M. Villalvilla, J. A. Quintana, Y. Zou, X. Hou, H. Wei, Z. Li, Z. Sun,* M. A. Díaz-García*, **J. Wu***, “Fused Triangulene Dimers: Facile Synthesis by Intramolecular Radical-Radical Coupling and Application for Near Infrared Lasers”, **Angew. Chem. Int. Ed.** **2023**, *62*, e202304197 (selected as Hot Paper).

345. L. Ren, Y. Han, X. Hou, Y. Ni, Y. Zou, T. Jiao, **J. Wu***, “Aromaticity in 2D Fully π -Conjugated Multicyclic Macrocycles”, **J. Am. Chem. Soc.** **2023**, *145*, 12398–12406.

344. T. Shen, Y. Zou, X. Hou, H. Wei, L. Ren, L. Jiao, **J. Wu***, “Bis-*peri*-dinaphtho-rylenes: Facile Synthesis via Radical-Mediated Coupling Reactions and their Distinctive Electronic Structures”, **Angew. Chem. Int. Ed.** **2023**, *62*, e202311928 (selected as Hot Paper).

343. Z. Sun, W. Fan, Y. Han, W. Yuan, Y. Ni, J. Wang, H. Wei, Y. Zhao, Z. Sun,* **J. Wu***, “Helical fused 1,2:8,9-dibenzozethrene oligomers with up to 201° end-to-end twist: “One-pot” synthesis and chiral resolution.” **Chem. Sci.** **2023**, *14*, 7922-7927.

342. J. Lawrence, Y. He, H. Wei, J. Su, S. Song, A. W. Rodrigues, D. Miravet, P. Hawrylak, J. Zhao, **J. Wu***, J. Lu*, “Topological Design and Synthesis of High-Spin Aza-triangulenes without Jahn–Teller Distortions”, **ACS Nano** **2023**, *17*, 20237–20245.

341. M.-W. Wang, W. Fan, X. Li, Y. Liu, Z. Li, W. Jiang, **J. Wu***, Z. Wang*, “Molecular Carbons: How Far Can We Go?”, **ACS Nano** **2023**, *17*, 20734-20752.

340. S. Qiu, Y. Zhao, L. Zhang, Y. Ni, Y. Wu, H. Cong, D. Qu, W. Jiang, **J. Wu**, H. Tian, Z. Wang*, “Axially N-Embedded Quasi-Carbon Nanohoops with Multioxidation States”, **CCS Chem.** **2023**, *5*, 1763-1772.

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338. X. Zhu, C. Gao, Y. Ren, X. Zhang, E. Li, C. Wang, F. Yang, **J. Wu**, W. Hu, and H. Chen*, “High-Contrast Bidirectional Optoelectronic Synapses based on 2D Molecular Crystal Heterojunctions for Motion Detection”, **Adv. Mater.** **2023**, *35*, 2301468.

337. Z. Wang, M. Wang, J. Song,* **J. Wu***, Zhen Li *, “Activating photocatalytic hydrogen evolution by constructing Ni-based organic layers and tailoring its crystal facets”, **Mater. Chem. Front.** **2023**, *7*, 2651-2660.

Year 2022

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336. J. Wu* (eds.), monograph “*Diradicaloids*” by Jenny Stanford Publishing (2022) (<https://www.routledge.com/Diradicaloids/Wu/p/book/9789814968089>).
335. B. Zhang, S. Wu, X. Hou, G. Li, Y. Ni, Q. Zhang, J. Zhu, P. Wang, Z. Sun* and J. Wu*, “A Graphyne Spoked Wheel”, *Chem* **2022**, *8*, 2831-2842 (Highlighted in [Synfacts](#); also see [Previews by J. M. Gottfried: Chem 8, 2571–2593](#)).
334. S. Wu, Y. Ni, Y. Han, S. Xin, X. Hou, J. Zhu, Z. Li, J. Wu*, “Aromaticity in Fully π -Conjugated Open-Cage Molecules”, *J. Am. Chem. Soc.* **2022**, *144*, 23158-23167.
333. S. Wu, Y. Ni, Y. Han, X. Hou, C. Wang, W. Hu, J. Wu*, “Hückel- and Baird-type Global Aromaticity in a 3D Fully Conjugated Molecular Cage”. *Angew. Chem. Int. Ed.* **2022**, *61*, e202115571.
332. S. Xin, Y. Han, W. Fan, X. Wang, Y. Ni,* J. Wu*, “Enhanced Aromaticity and Open-shell Diradical Character in The Dianions of 9-Fluorenylidene Substituted Expanded Radialenes”. *Angew. Chem. Int. Ed.* **2022**, *61*, e202209448.
331. H. Wei, X. Hou, T. Xu, Y. Zou, G. Li, S. Wu, Y. Geng, J. Wu*, “Solution-Phase Synthesis and Isolation of An Aza-Triangulene and Its Cation in Crystalline Form”, *Angew. Chem. Int. Ed.* **2022**, *61*, e202210386 (selected as a Hot Paper and Highlighted by [Chemistry World, Sep 05, 2022](#)).
330. Z. Li, X. Hou, Y. Han, W. Fan, Y. Ni, Q. Zhou, J. Zhu, S. Wu, K.-W. Huang, J. Wu*, “[8]Cyclo-para-phenylmethine as A Super-Cyclooctatetraene: Dynamic Behavior, Global Aromaticity, and Open-Shell Diradical Character in The Neutral and Dicationic States”. *Angew. Chem. Int. Ed.* **2022**, *61*, e202210697 (selected as a VIP paper).
329. C. Wang, X. Wang, Z. Zhang,* R. Zhao, Y. Zhu, C. Yang, J. Li, J. Wu*, W. Hu*, “Two dimensional Covalent Organic Frameworks: From Synthetic Strategies to Advanced Optical-electrical-magnetic Functionalities”. *Adv. Mater.* **2022**, *34*, 2102290.
328. X. Zhu, Y. Yan, F. Yang,* Y. Zhang, Y. Ren, Y. Liu, L. Sun, X. Zhang, R. Li, H. Chen,* J. Wu*, F. Yang*, W. Hu*, “Negative Phototransistors with Ultrahigh Sensitivity and Weak-Light Detection Based on 1D/2D Molecular Crystal p-n Heterojunctions and their Application in Light Encoders”. *Adv. Mater.* **2022**, *34*, 2201364.
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326. X. Hou, G. T. Nguyen, T. Xu, H. Wei, T. S. Heng, G. Huo, D. Wang, J. Ding, S. Wu*, L. Ungur*, J. Wu*, “Stable Triarylmethyl Radicals and Cobalt(II) Ions Based 1D/2D Coordination Polymers”, *Chem. Eur. J.* **2022**, *28*, e202200687.
325. D. Wang, X. Lu, Arramel, L. Cai, L. Zhang, S. Feng, W. Zhang, M. Yang,* J. Wu,* Z. Wang,* A.T.S. Wee,* “Low-Dimensional Porous Carbon Networks Using Single-/Triple-Coupling Polycyclic Hydrocarbon Precursors”, *ACS Nano* **2022**, *16*, 9843-9851.
324. X. Hou, K. Geng, J. Li, S. Wu, J. Wu,* “Dibenzylidene-s-indacenetetraone Linked n-Type Semiconducting Covalent Organic Framework via Aldol Condensation”, *ACS Mater. Lett.* **2022**, *4*, 1154-1159.
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321. D. Wang, Z. Wang, S. Wu, Arramel, X. Yin, C. S. Tang, Y. P. Feng, J. Wu,* A. TS Wee,* “Realizing Two-Dimensional Supramolecular Arrays of a Spin Molecule via Halogen Bonding”. *ACS Nano Au* **2022**, *2*, 333-340.
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319. C. Wang, Q. Sun, G. Peng, Y. Yan, X. Yu, E. Li, R. Yu, C. Gao, X. Zhang, S. Duan*, H. Chen*, J. Wu*, W. Hu*, “CsPbBr₃ quantum dots/PDVT-10 conjugated polymer hybrid film-based photonic synaptic transistors toward high-efficiency neuromorphic computing”, *Sci. China Mater.* **2022**, *65*, 3077-3086.
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314. J. Zhu, Y. Han, Y. Ni, S. Wu, Q. Zhang, T. Jiao, Z. Li, J. Wu*, "Facile Synthesis of a Fully Fused, 3D π -Conjugated Archimedean Cage with Magnetically Shielded Cavity", *J. Am. Chem. Soc.* **2021**, 143, 14314–14321.
313. W. Fan, Y. Han, X. Wang, X. Hou, J. Wu*, "Expanded Kekulenes", *J. Am. Chem. Soc.* **2021**, 143, 13908–13916 (Highlighted by [ChemistryViews](#), Aug 22, 2021).
312. W. Fan, T. Matsuno, Y. Han, X. Wang, Q. Zhou, H. Isobe,* J. Wu*, "Synthesis and Chiral Resolution of Twisted Carbon Nanobelts", *J. Am. Chem. Soc.* **2021**, 143, 15924–15929.
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