

# Sheng Yang

## List of Publications by Year in descending order

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31  
papers

3,286  
citations

304743

22  
h-index

434195

31  
g-index

31  
all docs

31  
docs citations

31  
times ranked

4529  
citing authors

#	ARTICLE	IF	CITATIONS
1	Transistors based on solution-processed 2D materials for chemical and biological sensing. Flexible and Printed Electronics, 2022, 7, 014001.	2.7	2
2	Two-Dimensional Violet Phosphorus: A p-Type Semiconductor for (Opto)electronics. Journal of the American Chemical Society, 2022, 144, 3660-3666.	13.7	56
3	Device level reversible potassium intercalation into bilayer graphene. 2D Materials, 2022, 9, 025020.	4.4	2
4	Band transport by large Fröhlich polarons in MXenes. Nature Physics, 2022, 18, 544-550.	16.7	40
5	Electronic Doping of Metal-Organic Frameworks for High-Performance Flexible Micro-Supercapacitors. Small Structures, 2021, 2, 2000095.	12.0	25
6	Facile assembly of layer-interlocked graphene heterostructures as flexible electrodes for Li-ion batteries. Faraday Discussions, 2021, 227, 321-331.	3.2	1
7	Ambient-Stable Two-Dimensional Titanium Carbide (MXene) Enabled by Iodine Etching. Angewandte Chemie - International Edition, 2021, 60, 8689-8693.	13.8	212
8	Ambient-Stable Two-Dimensional Titanium Carbide (MXene) Enabled by Iodine Etching. Angewandte Chemie, 2021, 133, 8771-8775.	2.0	16
9	Emerging perovskite monolayers. Nature Materials, 2021, 20, 1325-1336.	27.5	124
10	Dual-Redox-Sites Enable Two-Dimensional Conjugated Metal-Organic Frameworks with Large Pseudocapacitance and Wide Potential Window. Journal of the American Chemical Society, 2021, 143, 10168-10176.	13.7	75
11	Molecularly Engineered Black Phosphorus Heterostructures with Improved Ambient Stability and Enhanced Charge Carrier Mobility. Advanced Materials, 2021, 33, e2105694.	21.0	16
12	Scalable one-step production of electrochemically exfoliated graphene decorated with transition metal oxides for high-performance supercapacitors. Nanoscale, 2021, 13, 15859-15868.	5.6	4
13	Topochemical Synthesis of Two-Dimensional Transition-Metal Phosphides Using Phosphorene Templates. Angewandte Chemie - International Edition, 2020, 59, 465-470.	13.8	94
14	Topochemical Synthesis of Two-Dimensional Transition-Metal Phosphides Using Phosphorene Templates. Angewandte Chemie, 2020, 132, 473-478.	2.0	8
15	Oxidation promoted osmotic energy conversion in black phosphorus membranes. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 13959-13966.	7.1	102
16	Flexible in-plane micro-supercapacitors: Progresses and challenges in fabrication and applications. Energy Storage Materials, 2020, 28, 160-187.	18.0	113
17	Ultrafast Electrochemical Synthesis of Defect-Free In <sub>2</sub> Se <sub>3</sub> Flakes for Large-Area Optoelectronics. Advanced Materials, 2020, 32, e1907244.	21.0	75
18	Emerging 2D Materials Produced via Electrochemistry. Advanced Materials, 2020, 32, e1907857.	21.0	127

#	ARTICLE	IF	CITATIONS
19	A Nonaqueous Na <sup>+</sup> /K <sup>+</sup> Hybrid Micro <sup>2D</sup> Supercapacitor with Wide Potential Window and Ultrahigh Areal Energy Density. Batteries and Supercaps, 2019, 2, 918-923.	4.7	30
20	Mechanically strong MXene/Kevlar nanofiber composite membranes as high-performance nanofluidic osmotic power generators. Nature Communications, 2019, 10, 2920.	12.8	373
21	Improved Hole Injection into Perovskite Light-Emitting Diodes Using A Black Phosphorus Interlayer. Advanced Electronic Materials, 2019, 5, 1800687.	5.1	20
22	A Delamination Strategy for Thinly Layered Defect-Free High-Mobility Black Phosphorus Flakes. Angewandte Chemie - International Edition, 2018, 57, 4677-4681.	13.8	98
23	A Delamination Strategy for Thinly Layered Defect-Free High-Mobility Black Phosphorus Flakes. Angewandte Chemie, 2018, 130, 4767-4771.	2.0	47
24	Hybrid Silver Nanowire and Graphene-Based Solution-Processed Transparent Electrode for Organic Optoelectronics. Advanced Functional Materials, 2018, 28, 1706010.	14.9	235
25	Vertically Aligned MoS <sub>2</sub> Nanosheets Patterned on Electrochemically Exfoliated Graphene for High-Performance Lithium and Sodium Storage. Advanced Energy Materials, 2018, 8, 1702254.	19.5	274
26	Fluoride-Free Synthesis of Two-Dimensional Titanium Carbide (MXene) Using A Binary Aqueous System. Angewandte Chemie, 2018, 130, 15717-15721.	2.0	241
27	Fluoride-Free Synthesis of Two-Dimensional Titanium Carbide (MXene) Using A Binary Aqueous System. Angewandte Chemie - International Edition, 2018, 57, 15491-15495.	13.8	393
28	High Power In-Plane Micro <sup>2D</sup> Supercapacitors Based on Mesoporous Polyaniline Patterned Graphene. Small, 2017, 13, 1603388.	10.0	58
29	Ultrafast Delamination of Graphite into High-Quality Graphene Using Alternating Currents. Angewandte Chemie - International Edition, 2017, 56, 6669-6675.	13.8	134
30	Ultraschnelle Schichtabl�sung von Graphit zu qualitativ hochwertigem Graphen durch Nutzung von Wechselstrom. Angewandte Chemie, 2017, 129, 6770-6776.	2.0	11
31	Scalable Fabrication and Integration of Graphene Microsupercapacitors through Full Inkjet Printing. ACS Nano, 2017, 11, 8249-8256.	14.6	280