## Fengrui Yao

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Ultrafast and highly sensitive infrared photodetectors based on two-dimensional oxyselenide crystals. Nature Communications, 2018, 9, 3311.	12.8	213
2	Graphene photonic crystal fibre with strong and tunable light–matter interaction. Nature Photonics, 2019, 13, 754-759.	31.4	127
3	BNâ€Enabled Epitaxy of Pb <sub>1–<i>x</i></sub> Sn <i><sub>x</sub></i> Se Nanoplates on SiO <sub>2</sub> /Si for Highâ€Performance Midâ€Infrared Detection. Small, 2015, 11, 5388-5394.	10.0	41
4	Carbon Nanotubes as an Ultrafast Emitter with a Narrow Energy Spread at Optical Frequency. Advanced Materials, 2017, 29, 1701580.	21.0	37
5	SWCNTâ€MoS <sub>2</sub> â€&WCNT Vertical Point Heterostructures. Advanced Materials, 2017, 29, 1604469.	21.0	32
6	Ultrafast Broadband Charge Collection from Clean Graphene/CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Interface. Journal of the American Chemical Society, 2018, 140, 14952-14957.	13.7	29
7	High Conversion Efficiency Carbon Nanotube-Based Barrier-Free Bipolar-Diode Photodetector. ACS Nano, 2016, 10, 9595-9601.	14.6	23
8	Chemical Intercalation of Topological Insulator Grid Nanostructures for Highâ€Performance Transparent Electrodes. Advanced Materials, 2017, 29, 1703424.	21.0	21
9	Measurement of complex optical susceptibility for individual carbon nanotubes by elliptically polarized light excitation. Nature Communications, 2018, 9, 3387.	12.8	18
10	Colors of Singleâ€Wall Carbon Nanotubes. Advanced Materials, 2021, 33, e2006395.	21.0	18
11	Complete structural characterization of single carbon nanotubes by Rayleigh scattering circular dichroism. Nature Nanotechnology, 2021, 16, 1073-1078.	31.5	18
12	Realâ€Time Observation of Carbon Nanotube Etching Process Using Polarized Optical Microscope. Advanced Materials, 2017, 29, 1701959.	21.0	13
13	Quiver-quenched optical-field-emission from carbon nanotubes. Applied Physics Letters, 2017, 111, .	3.3	13
14	Highâ€Throughput Determination of Statistical Structure Information for Horizontal Carbon Nanotube Arrays by Optical Imaging. Advanced Materials, 2016, 28, 2018-2023.	21.0	11
15	Carbon Nanotubes: Carbon Nanotubes as an Ultrafast Emitter with a Narrow Energy Spread at Optical Frequency (Adv. Mater. 30/2017). Advanced Materials, 2017, 29, .	21.0	4
16	Highâ€Throughput Optical Imaging and Spectroscopy of Oneâ€Dimensional Materials. Chemistry - A European Journal, 2017, 23, 9703-9710.	3.3	1
17	Carbon Nanotubes: Colors of Singleâ€Wall Carbon Nanotubes (Adv. Mater. 8/2021). Advanced Materials, 2021, 33, 2170060	21.0	1
18	Frontispiece: Highâ€Throughput Optical Imaging and Spectroscopy of Oneâ€Dimensional Materials. Chemistry - A Furopean Journal, 2017, 23, .	3.3	0