Fengrui Yao

List of Publications by Year in Descending Order

17 papers	410 citations	11 h-index	19 g-index
19 ext. papers	523 ext. citations	18.9 avg, IF	3.05 L-index

#	Paper	IF	Citations
17	Colors of Single-Wall Carbon Nanotubes. *Advanced Materials*, **2021**, 33, e2006395	24	7
16	Carbon Nanotubes: Colors of Single-Wall Carbon Nanotubes (Adv. Mater. 8/2021). *Advanced Materials*, **2021**, 33, 2170060	24	
15	Complete structural characterization of single carbon nanotubes by Rayleigh scattering circular dichroism. *Nature Nanotechnology*, **2021**, 16, 1073-1078	28.7	9
14	Graphene photonic crystal fibre with strong and tunable light–matter interaction. *Nature Photonics*, **2019**, 13, 754-759	33.9	69
13	Ultrafast and highly sensitive infrared photodetectors based on two-dimensional oxyselenide crystals. *Nature Communications*, **2018**, 9, 3311	17.4	135
12	Measurement of complex optical susceptibility for individual carbon nanotubes by elliptically polarized light excitation. *Nature Communications*, **2018**, 9, 3387	17.4	13
11	Ultrafast Broadband Charge Collection from Clean Graphene/CHNHPbI Interface. *Journal of the American Chemical Society*, **2018**, 140, 14952-14957	16.4	21
10	Carbon Nanotubes as an Ultrafast Emitter with a Narrow Energy Spread at Optical Frequency. *Advanced Materials*, **2017**, 29, 1701580	24	25
9	Real-Time Observation of Carbon Nanotube Etching Process Using Polarized Optical Microscope. *Advanced Materials*, **2017**, 29, 1701959	24	13
8	High-Throughput Optical Imaging and Spectroscopy of One-Dimensional Materials. *Chemistry - A European Journal*, **2017**, 23, 9703-9710	4.8	
7	SWCNT-MoS -SWCNT Vertical Point Heterostructures. *Advanced Materials*, **2017**, 29, 1604469	24	26
6	Chemical Intercalation of Topological Insulator Grid Nanostructures for High-Performance Transparent Electrodes. *Advanced Materials*, **2017**, 29, 1703424	24	17
5	Quiver-quenched optical-field-emission from carbon nanotubes. *Applied Physics Letters*, **2017**, 111, 133101	3.4	11
4	Carbon Nanotubes: Carbon Nanotubes as an Ultrafast Emitter with a Narrow Energy Spread at Optical Frequency (Adv. Mater. 30/2017). *Advanced Materials*, **2017**, 29,	24	3
3	High Conversion Efficiency Carbon Nanotube-Based Barrier-Free Bipolar-Diode Photodetector. *ACS Nano*, **2016**, 10, 9595-9601	16.7	18
2	High-Throughput Determination of Statistical Structure Information for Horizontal Carbon Nanotube Arrays by Optical Imaging. *Advanced Materials*, **2016**, 28, 2018-23	24	8
1	BN-Enabled Epitaxy of Pb(1-x)Sn(x)Se Nanoplates on SiO2/Si for High-Performance Mid-Infrared Detection. *Small*, **2015**, 11, 5388-94	11	34