

# Akihiro Ishii

## List of Publications by Year in descending order

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Version: 2024-02-01

23  
papers

473  
citations

759233

12  
h-index

752698

20  
g-index

23  
all docs

23  
docs citations

23  
times ranked

662  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultralow mode-volume photonic crystal nanobeam cavities for high-efficiency coupling to individual carbon nanotube emitters. <i>Nature Communications</i> , 2014, 5, 5580.	12.8	103
2	Exciton diffusion, end quenching, and exciton-exciton annihilation in individual air-suspended carbon nanotubes. <i>Physical Review B</i> , 2015, 91, .	3.2	55
3	Spontaneous Exciton Dissociation in Carbon Nanotubes. <i>Physical Review Letters</i> , 2014, 112, 117401.	7.8	48
4	Enhanced Single-Photon Emission from Carbon-Nanotube Dopant States Coupled to Silicon Microcavities. <i>Nano Letters</i> , 2018, 18, 3873-3878.	9.1	44
5	Room-Temperature Single-Photon Emission from Micrometer-Long Air-Suspended Carbon Nanotubes. <i>Physical Review Applied</i> , 2017, 8, .	3.8	29
6	Single Carbon Nanotubes as Ultrasmall All-Optical Memories. <i>ACS Photonics</i> , 2018, 5, 559-565.	6.6	28
7	Stark effect of excitons in individual air-suspended carbon nanotubes. <i>Applied Physics Letters</i> , 2014, 105, 161104.	3.3	25
8	Cold exciton electroluminescence from air-suspended carbon nanotube split-gate devices. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	23
9	Hexagonal Boron Nitride As an Ideal Substrate for Carbon Nanotube Photonics. <i>ACS Photonics</i> , 2020, 7, 1773-1779.	6.6	22
10	Giant Circular Dichroism in Individual Carbon Nanotubes Induced by Extrinsic Chirality. <i>Physical Review X</i> , 2014, 4, .	8.9	21
11	Gate-controlled generation of optical pulse trains using individual carbon nanotubes. <i>Nature Communications</i> , 2015, 6, 6335.	12.8	19
12	High Efficiency Dark-to-Bright Exciton Conversion in Carbon Nanotubes. <i>Physical Review X</i> , 2019, 9, .	8.9	14
13	Electric-Field Induced Activation of Dark Excitonic States in Carbon Nanotubes. <i>Nano Letters</i> , 2016, 16, 2278-2282.	9.1	12
14	Spectral tuning of optical coupling between air-mode nanobeam cavities and individual carbon nanotubes. <i>Applied Physics Letters</i> , 2018, 112, 021101.	3.3	9
15	Organic Molecular Tuning of Many-Body Interaction Energies in Air-Suspended Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2019, 123, 5776-5781.	3.1	7
16	Super-resolution fluorescence imaging of carbon nanotubes using a nonlinear excitonic process. <i>Optics Express</i> , 2019, 27, 17463.	3.4	6
17	Waveguide coupled cavity-enhanced light emission from individual carbon nanotubes. <i>APL Photonics</i> , 2021, 6, .	5.7	3
18	Formation of organic color centers in air-suspended carbon nanotubes using vapor-phase reaction. <i>Nature Communications</i> , 2022, 13, .	12.8	3

#	ARTICLE	IF	CITATIONS
19	Decay Dynamics and Diffusion Lengths of Bright and Dark Excitons in Air-Suspended Carbon Nanotubes. ECS Meeting Abstracts, 2019, , .	0.0	1
20	Evidence for near-unity radiative quantum efficiency of bright excitons in carbon nanotubes from the Purcell effect. Physical Review Research, 2022, 4, .	3.6	1
21	(Invited) Near-Unity Radiative Quantum Efficiency of Excitons in Carbon Nanotubes. ECS Meeting Abstracts, 2021, MA2021-01, 556-556.	0.0	0
22	(Invited) Organic Molecular Tuning of Many-Body Interaction Energies in Air-Suspended Carbon Nanotubes. ECS Meeting Abstracts, 2019, , .	0.0	0
23	(Invited) Exciton Dynamics in Air-Suspended Carbon Nanotubes Coupled to Nanobeam Cavities. ECS Meeting Abstracts, 2020, MA2020-01, 669-669.	0.0	0