

Taishi Nishihara

List of Publications by Year in descending order

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Version: 2024-02-01

35
papers

1,917
citations

430874

18
h-index

377865

34
g-index

37
all docs

37
docs citations

37
times ranked

2425
citing authors

#	ARTICLE	IF	CITATIONS
1	Empirical formulation of broadband complex refractive index spectra of single-chirality carbon nanotube assembly. <i>Nanophotonics</i> , 2022, 11, 1011-1020.	6.0	7
2	Directional Exciton-Energy Transport in a Lateral Heteromonolayer of WSe ₂ –MoSe ₂ . <i>ACS Nano</i> , 2022, 16, 8205-8212.	14.6	20
3	Perfluorocycloparaphenylenes. <i>Nature Communications</i> , 2022, 13, .	12.8	16
4	Statistical Verification of Anomaly in Chiral Angle Distribution of Air-Suspended Carbon Nanotubes. <i>Nano Letters</i> , 2022, 22, 5818-5824.	9.1	3
5	Double-Helix Supramolecular Nanofibers Assembled from Negatively Curved Nanographenes. <i>Journal of the American Chemical Society</i> , 2021, 143, 5465-5469.	13.7	66
6	Theory of exciton thermal radiation in semiconducting single-walled carbon nanotubes. <i>Optics Letters</i> , 2021, 46, 3021.	3.3	7
7	Controllable Magnetic Proximity Effect and Charge Transfer in 2D Semiconductor and Double-Layered Perovskite Manganese Oxide van der Waals Heterostructure. <i>Advanced Materials</i> , 2020, 32, e2003501.	21.0	20
8	Van der Waals Heterostructures: Controllable Magnetic Proximity Effect and Charge Transfer in 2D Semiconductor and Double-Layered Perovskite Manganese Oxide van der Waals Heterostructure (Adv. Tj ETQq0210rgBT /O)verlock 1	21.0	20
9	Observation of Drastic Electronic-Structure Change in a One-Dimensional Moiré Superlattice. <i>Physical Review Letters</i> , 2020, 124, 106101.	7.8	23
10	Topological molecular nanocarbons: All-benzene catenane and trefoil knot. <i>Science</i> , 2019, 365, 272-276.	12.6	192
11	Strength of carbon nanotubes depends on their chemical structures. <i>Nature Communications</i> , 2019, 10, 3040.	12.8	148
12	A Water-Soluble Warped Nanographene: Synthesis and Applications for Photoinduced Cell Death. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 2874-2878.	13.8	102
13	Unidirectional molecular assembly alignment on graphene enabled by nanomechanical symmetry breaking. <i>Scientific Reports</i> , 2018, 8, 2333.	3.3	5
14	Ultra-narrow-band near-infrared thermal exciton radiation in intrinsic one-dimensional semiconductors. <i>Nature Communications</i> , 2018, 9, 3144.	12.8	15
15	Synthesis and Size-Dependent Properties of [12], [16], and [24]Carbon Nanobelts. <i>Journal of the American Chemical Society</i> , 2018, 140, 10054-10059.	13.7	131
16	Synthesis of a carbon nanobelt. <i>Science</i> , 2017, 356, 172-175.	12.6	408
17	Electrically Activated Conductivity and White Light Emission of a Hydrocarbon Nanoring–Iodine Assembly. <i>Angewandte Chemie</i> , 2017, 129, 11348-11354.	2.0	17
18	Review–Photophysics of Trions in Single-Walled Carbon Nanotubes. <i>ECS Journal of Solid State Science and Technology</i> , 2017, 6, M3062-M3064.	1.8	1

#	ARTICLE	IF	CITATIONS
19	Key Structural Elements of Unsymmetrical Cyanine Dyes for Highly Sensitive Fluorescence Turn-On DNA Probes. <i>Chemistry - an Asian Journal</i> , 2017, 12, 233-238.	3.3	19
20	Electrically Activated Conductivity and White Light Emission of a Hydrocarbon Nanoring-Iodine Assembly. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 11196-11202.	13.8	62
21	Construction of Covalent Organic Nanotubes by Light-Induced Cross-Linking of Diacetylene-Based Helical Polymers. <i>Journal of the American Chemical Society</i> , 2016, 138, 11001-11008.	13.7	67
22	Dynamics of the Lowest-Energy Excitons in Single-Walled Carbon Nanotubes under Resonant and Nonresonant Optical Excitation. <i>Journal of Physical Chemistry C</i> , 2015, 119, 28654-28659.	3.1	5
23	Cycloparaphenylene-Based Ionic Donor-Acceptor Supramolecule: Isolation and Characterization of $\text{Li}^+@C_{60}$. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 3707-3711.	13.8	137
24	Fast Dissociation and Reduced Auger Recombination of Multiple Excitons in Closely Packed PbS Nanocrystal Thin Films. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 1327-1332.	4.6	21
25	Chemical doping-induced changes in optical properties of single-walled carbon nanotubes. <i>Japanese Journal of Applied Physics</i> , 2014, 53, 05FD02.	1.5	1
26	Quantized exciton-exciton recombination in undoped and hole-doped single-walled carbon nanotubes. <i>Japanese Journal of Applied Physics</i> , 2014, 53, 02BD10.	1.5	2
27	Exciton recombination dynamics in nanoring cycloparaphenylenes. <i>Chemical Science</i> , 2014, 5, 2293.	7.4	40
28	Impact of surface ligands on the photocurrent enhancement due to multiple exciton generation in close-packed nanocrystal thin films. <i>Chemical Science</i> , 2014, 5, 2696.	7.4	19
29	Trion formation and recombination dynamics in hole-doped single-walled carbon nanotubes. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	25
30	Dissipative structure in the photo-induced phase under steady light irradiation in the spin crossover complex. <i>Optics Express</i> , 2013, 21, 31179.	3.4	2
31	Dynamics of excitons and trions in semiconducting carbon nanotubes. , 2013, , .		1
32	Dynamics of exciton-hole recombination in hole-doped single-walled carbon nanotubes. <i>Physical Review B</i> , 2012, 86, .	3.2	25
33	Excited States in Cycloparaphenylenes: Dependence of Optical Properties on Ring Length. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 3125-3128.	4.6	94
34	Nanoparticles of iron(ii) spin-crossover. <i>Chemical Communications</i> , 2008, , 4327.	4.1	172
35	Extraordinary transmission of terahertz electromagnetic waves through 2-dimensional metallic photonic crystal. , 2006, , .		0