Taishi Nishihara

List of Publications by Year
in descending order

35	1,917	430874 18	377865 34
papers	citations	h-index	g-index

37	37	37	2425
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Synthesis of a carbon nanobelt. Science, 2017, 356, 172-175.	12.6	408
2	Topological molecular nanocarbons: All-benzene catenane and trefoil knot. Science, 2019, 365, 272-276.	12.6	192
3	Nanoparticles of iron(ii) spin-crossover. Chemical Communications, 2008, , 4327.	4.1	172
4	Strength of carbon nanotubes depends on their chemical structures. Nature Communications, 2019, 10, 3040.	12.8	148
5	Cycloparaphenyleneâ€Based Ionic Donorâ€“Acceptor Supramolecule: Isolation and Characterization of Li⁺@C₆₀âŠ‚[10]CPP. Angewandte Chemie - International Edition, 2015, 54, 3707-3711.	13.8	137
6	Synthesis and Size-Dependent Properties of [12], [16], and [24]Carbon Nanobelts. Journal of the American Chemical Society, 2018, 140, 10054-10059.	13.7	131
7	A Waterâ€Soluble Warped Nanographene: Synthesis and Applications for Photoinduced Cell Death. Angewandte Chemie - International Edition, 2018, 57, 2874-2878.	13.8	102
8	Excited States in Cycloparaphenylenes: Dependence of Optical Properties on Ring Length. Journal of Physical Chemistry Letters, 2012, 3, 3125-3128.	4.6	94
9	Construction of Covalent Organic Nanotubes by Light-Induced Cross-Linking of Diacetylene-Based Helical Polymers. Journal of the American Chemical Society, 2016, 138, 11001-11008.	13.7	67
10	Double-Helix Supramolecular Nanofibers Assembled from Negatively Curved Nanographenes. Journal of the American Chemical Society, 2021, 143, 5465-5469.	13.7	66
11	Electrically Activated Conductivity and White Light Emission of a Hydrocarbon Nanoringâ€“Iodine Assembly. Angewandte Chemie - International Edition, 2017, 56, 11196-11202.	13.8	62
12	Exciton recombination dynamics in nanoring cycloparaphenylenes. Chemical Science, 2014, 5, 2293.	7.4	40
13	Dynamics of exciton-hole recombination in hole-doped single-walled carbon nanotubes. Physical Review B, 2012, 86, .	3.2	25
14	Trion formation and recombination dynamics in hole-doped single-walled carbon nanotubes. Applied Physics Letters, 2013, 103, .	3.3	25
15	Observation of Drastic Electronic-Structure Change in a One-Dimensional MoirÃ© Superlattice. Physical Review Letters, 2020, 124, 106101.	7.8	23
16	Fast Dissociation and Reduced Auger Recombination of Multiple Excitons in Closely Packed PbS Nanocrystal Thin Films. Journal of Physical Chemistry Letters, 2015, 6, 1327-1332.	4.6	21
17	Controllable Magnetic Proximity Effect and Charge Transfer in 2D Semiconductor and Doubleâ€Layered Perovskite Manganese Oxide van der Waals Heterostructure. Advanced Materials, 2020, 32, e2003501.	21.0	20
18	Directional Exciton-Energy Transport in a Lateral Heteromonolayer of WSe₂â€“MoSe₂. ACS Nano, 2022, 16, 8205-8212.	14.6	20

#	Article	IF	Citations
19	Impact of surface ligands on the photocurrent enhancement due to multiple exciton generation in close-packed nanocrystal thin films. Chemical Science, 2014, 5, 2696.	7.4	19
20	Key Structural Elements of Unsymmetrical Cyanine Dyes for Highly Sensitive Fluorescence Turnâ€On DNA Probes. Chemistry - an Asian Journal, 2017, 12, 233-238.	3.3	19
21	Electrically Activated Conductivity and White Light Emission of a Hydrocarbon Nanoringâ€“Iodine Assembly. Angewandte Chemie, 2017, 129, 11348-11354.	2.0	17
22	Perfluorocycloparaphenylenes. Nature Communications, 2022, 13, .	12.8	16
23	Ultra-narrow-band near-infrared thermal exciton radiation in intrinsic one-dimensional semiconductors. Nature Communications, 2018, 9, 3144.	12.8	15
24	Theory of exciton thermal radiation in semiconducting single-walled carbon nanotubes. Optics Letters, 2021, 46, 3021.	3.3	7
25	Empirical formulation of broadband complex refractive index spectra of single-chirality carbon nanotube assembly. Nanophotonics, 2022, 11, 1011-1020.	6.0	7
26	Dynamics of the Lowest-Energy Excitons in Single-Walled Carbon Nanotubes under Resonant and Nonresonant Optical Excitation. Journal of Physical Chemistry C, 2015, 119, 28654-28659.	3.1	5
27	Unidirectional molecular assembly alignment on graphene enabled by nanomechanical symmetry breaking. Scientific Reports, 2018, 8, 2333.	3.3	5
28	Statistical Verification of Anomaly in Chiral Angle Distribution of Air-Suspended Carbon Nanotubes. Nano Letters, 2022, 22, 5818-5824.	9.1	3
29	Dissipative structure in the photo-induced phase under steady light irradiation in the spin crossover complex. Optics Express, 2013, 21, 31179.	3.4	2
30	Quantized excitonâ€“exciton recombination in undoped and hole-doped single-walled carbon nanotubes. Japanese Journal of Applied Physics, 2014, 53, 02BD10.	1.5	2
31	Dynamics of excitons and trions in semiconducting carbon nanotubes. , 2013, , .		1
32	Chemical doping-induced changes in optical properties of single-walled carbon nanotubes. Japanese Journal of Applied Physics, 2014, 53, 05FD02.	1.5	1
33	Reviewâ€”Photophysics of Trions in Single-Walled Carbon Nanotubes. ECS Journal of Solid State Science and Technology, 2017, 6, M3062-M3064.	1.8	1
34	Van der Waals Heterostructures: Controllable Magnetic Proximity Effect and Charge Transfer in 2D Semiconductor and Doubleâ€Layered Perovskite Manganese Oxide van der Waals Heterostructure (Adv.) Tj ETQq0 0 0 rgBT /Overlock 1		0
35	Extraordinary transmission of terahertz electromagnetic waves through 2-dimensional metallic photonic crystal. , 2006, , .		0