Naoto Tanigaki

List of Publications by Year in Descending Order

34 papers	8,960 citations	14 h-index	34 g-index
34 ext. papers	11,322 ext. citations	7.3 avg, IF	6.22 L-index

#	Paper	IF	Citations
34	Unearthing of a new science from nanostructured carbons. *Tanso*, **2021**, 2021, 145-160	0.1	
33	Nanopore structure analysis of single wall carbon nanotube xerogels and cryogels. *Adsorption*, **2021**, 27, 673-681	2.6	1
32	The subtracting pore effect method for an accurate and reliable surface area determination of porous carbons. *Carbon*, **2021**, 175, 77-86	10.4	6
31	Mesoscopic cage-like structured single-wall carbon nanotube cryogels. *Microporous and Mesoporous Materials*, **2020**, 293, 109814	5.3	3
30	Cu-phthalocyanine-mediated nanowindow production on single-wall carbon nanohorn. *Molecular Physics*, **2020**, e1815883	1.7	5
29	Measuring adsorption isotherms with a flowmeter and a pressure gauge. *Adsorption*, **2019**, 25, 809-817	2.6	
28	An Asymmetric Supercapacitor-Diode (CAPode) for Unidirectional Energy Storage. *Angewandte Chemie - International Edition*, **2019**, 58, 13060-13065	16.4	24
27	An Asymmetric SupercapacitorDiode (CAPode) for Unidirectional Energy Storage. *Angewandte Chemie*, **2019**, 131, 13194-13199	3.6	0
26	Electric field assisted ion adsorption with nanoporous SWCNT electrodes. *Adsorption*, **2019**, 25, 1035-1041	2.6	2
25	Air separation with graphene mediated by nanowindow-rim concerted motion. *Nature Communications*, **2018**, 9, 1812	17.4	42
24	Phenol Molecular Sheets Woven by Water Cavities in Hydrophobic Slit Nanospaces. *Langmuir*, **2018**, 34, 15150-15159	4	1
23	Mild oxidation-production of subnanometer-sized nanowindows of single wall carbon nanohorn. *Journal of Colloid and Interface Science*, **2018**, 529, 332-336	9.3	5
22	Partial breaking of the Coulombic ordering of ionic liquids confined in carbon nanopores. *Nature Materials*, **2017**, 16, 1225-1232	27	166
21	Adsorption-desorption mediated separation of low concentrated DO from water with hydrophobic activated carbon fiber. *Journal of Colloid and Interface Science*, **2017**, 508, 14-17	9.3	6
20	Crossover from localized to diffusive water dynamics in carbon nanohorns: A comprehensive quasielastic neutron-scattering analysis. *Physical Review E*, **2016**, 93, 022104	2.4	4
19	Zn/Al complex-SWCNT ink for transparent and conducting homogeneous films by scalable bar coating method. *Chemical Physics Letters*, **2016**, 650, 113-118	2.5	4
18	Essential Role of Viscosity of SWCNT Inks in Homogeneous Conducting Film Formation. *Langmuir*, **2016**, 32, 6909-16	4	4

17	Cycloparaphenylene as a molecular porous carbon solid with uniform pores exhibiting adsorption-induced softness. *Chemical Science*, **2016**, 7, 4204-4210	9.4	44
16	Hematite Core Nanoparticles with Carbon Shell: Potential for Environmentally Friendly Production from Iron Mining Sludge. *Journal of Materials Engineering and Performance*, **2016**, 25, 3121-3127	1.6	3
15	Sol–gel chemistry mediated Zn/Al-based complex dispersant for SWCNT in water without foam formation. *Carbon*, **2015**, 94, 518-523	10.4	11
14	Nuclear Quantum Effects in the Layering and Diffusion of Hydrogen Isotopes in Carbon Nanotubes. *Journal of Physical Chemistry Letters*, **2015**, 6, 3367-72	6.4	15
13	Physisorption of gases, with special reference to the evaluation of surface area and pore size distribution (IUPAC Technical Report). *Pure and Applied Chemistry*, **2015**, 87, 1051-1069	2.1	7465
12	Aqueous nanosilica dispersants for carbon nanotube. *Langmuir*, **2015**, 31, 3194-202	4	17
11	Activation routes for high surface area graphene monoliths from graphene oxide colloids. *Carbon*, **2014**, 76, 220-231	10.4	72
10	Metal-semiconductor transition like behavior of naphthalene-doped single wall carbon nanotube bundles. *Faraday Discussions*, **2014**, 173, 145-56	3.6	4
9	Enhanced CO2 Adsorptivity of Partially Charged Single Walled Carbon Nanotubes by Methylene Blue Encapsulation. *Journal of Physical Chemistry C*, **2012**, 116, 11216-11222	3.8	11
8	Fine pore mouth structure of molecular sieve carbon with GCMC-assisted supercritical gas adsorption analysis. *Adsorption*, **2009**, 15, 114-122	2.6	10
7	Enhancement of H2 and CH4 adsorptivities of single wall carbon nanotubes produced by mixed acid treatment. *Carbon*, **2008**, 46, 611-617	10.4	32
6	Choking Effect of Single-Wall Carbon Nanotubes on Solvent Adsorption in Radial Breathing Mode. *Journal of Physical Chemistry C*, **2007**, 111, 3220-3223	3.8	6
5	Structures and stability of water nanoclusters in hydrophobic nanospaces. *Nano Letters*, **2005**, 5, 227-30	11.5	60
4	Affinity transformation from hydrophilicity to hydrophobicity of water molecules on the basis of adsorption of water in graphitic nanopores. *Journal of the American Chemical Society*, **2004**, 126, 1560-2	16.4	130
3	Restricted hydration structures of Rb and Br ions confined in slit-shaped carbon nanospace. *Journal of the American Chemical Society*, **2002**, 124, 11860-1	16.4	88
2	Simulation study on the relationship between a high resolution α_s-plot and the pore size distribution for activated carbon. *Carbon*, **1998**, 36, 1459-1467	10.4	236
1	Determination of pore size and pore size distribution. *Journal of Membrane Science*, **1994**, 96, 59-89	9.6	483