

Naoto Tanigaki

List of Publications by Citations

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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	Physisorption of gases, with special reference to the evaluation of surface area and pore size distribution (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , 2015 , 87, 1051-1069	2.1	7465
33	Determination of pore size and pore size distribution. <i>Journal of Membrane Science</i> , 1994 , 96, 59-89	9.6	483
32	Simulation study on the relationship between a high resolution μ -plot and the pore size distribution for activated carbon. <i>Carbon</i> , 1998 , 36, 1459-1467	10.4	236
31	Partial breaking of the Coulombic ordering of ionic liquids confined in carbon nanopores. <i>Nature Materials</i> , 2017 , 16, 1225-1232	27	166
30	Affinity transformation from hydrophilicity to hydrophobicity of water molecules on the basis of adsorption of water in graphitic nanopores. <i>Journal of the American Chemical Society</i> , 2004 , 126, 1560-2	16.4	130
29	Restricted hydration structures of Rb and Br ions confined in slit-shaped carbon nanospace. <i>Journal of the American Chemical Society</i> , 2002 , 124, 11860-1	16.4	88
28	Activation routes for high surface area graphene monoliths from graphene oxide colloids. <i>Carbon</i> , 2014 , 76, 220-231	10.4	72
27	Structures and stability of water nanoclusters in hydrophobic nanospaces. <i>Nano Letters</i> , 2005 , 5, 227-30	11.5	60
26	Cycloparaphenylene as a molecular porous carbon solid with uniform pores exhibiting adsorption-induced softness. <i>Chemical Science</i> , 2016 , 7, 4204-4210	9.4	44
25	Air separation with graphene mediated by nanowindow-rim concerted motion. <i>Nature Communications</i> , 2018 , 9, 1812	17.4	42
24	Enhancement of H ₂ and CH ₄ adsorptivities of single wall carbon nanotubes produced by mixed acid treatment. <i>Carbon</i> , 2008 , 46, 611-617	10.4	32
23	An Asymmetric Supercapacitor-Diode (CAPode) for Unidirectional Energy Storage. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 13060-13065	16.4	24
22	Aqueous nanosilica dispersants for carbon nanotube. <i>Langmuir</i> , 2015 , 31, 3194-202	4	17
21	Nuclear Quantum Effects in the Layering and Diffusion of Hydrogen Isotopes in Carbon Nanotubes. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 3367-72	6.4	15
20	Sol-gel chemistry mediated Zn/Al-based complex dispersant for SWCNT in water without foam formation. <i>Carbon</i> , 2015 , 94, 518-523	10.4	11
19	Enhanced CO ₂ Adsorptivity of Partially Charged Single Walled Carbon Nanotubes by Methylene Blue Encapsulation. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 11216-11222	3.8	11
18	Fine pore mouth structure of molecular sieve carbon with GCMC-assisted supercritical gas adsorption analysis. <i>Adsorption</i> , 2009 , 15, 114-122	2.6	10

17	Adsorption-desorption mediated separation of low concentrated DO from water with hydrophobic activated carbon fiber. <i>Journal of Colloid and Interface Science</i> , 2017 , 508, 14-17	9.3	6
16	Choking Effect of Single-Wall Carbon Nanotubes on Solvent Adsorption in Radial Breathing Mode. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 3220-3223	3.8	6
15	The subtracting pore effect method for an accurate and reliable surface area determination of porous carbons. <i>Carbon</i> , 2021 , 175, 77-86	10.4	6
14	Cu-phthalocyanine-mediated nanowindow production on single-wall carbon nanohorn. <i>Molecular Physics</i> , 2020 , e1815883	1.7	5
13	Mild oxidation-production of subnanometer-sized nanowindows of single wall carbon nanohorn. <i>Journal of Colloid and Interface Science</i> , 2018 , 529, 332-336	9.3	5
12	Crossover from localized to diffusive water dynamics in carbon nanohorns: A comprehensive quasielastic neutron-scattering analysis. <i>Physical Review E</i> , 2016 , 93, 022104	2.4	4
11	Zn/Al complex-SWCNT ink for transparent and conducting homogeneous films by scalable bar coating method. <i>Chemical Physics Letters</i> , 2016 , 650, 113-118	2.5	4
10	Essential Role of Viscosity of SWCNT Inks in Homogeneous Conducting Film Formation. <i>Langmuir</i> , 2016 , 32, 6909-16	4	4
9	Metal-semiconductor transition like behavior of naphthalene-doped single wall carbon nanotube bundles. <i>Faraday Discussions</i> , 2014 , 173, 145-56	3.6	4
8	Mesoscopic cage-like structured single-wall carbon nanotube cryogels. <i>Microporous and Mesoporous Materials</i> , 2020 , 293, 109814	5.3	3
7	Hematite Core Nanoparticles with Carbon Shell: Potential for Environmentally Friendly Production from Iron Mining Sludge. <i>Journal of Materials Engineering and Performance</i> , 2016 , 25, 3121-3127	1.6	3
6	Electric field assisted ion adsorption with nanoporous SWCNT electrodes. <i>Adsorption</i> , 2019 , 25, 1035-1041	4.6	2
5	Nanopore structure analysis of single wall carbon nanotube xerogels and cryogels. <i>Adsorption</i> , 2021 , 27, 673-681	2.6	1
4	Phenol Molecular Sheets Woven by Water Cavities in Hydrophobic Slit Nanospaces. <i>Langmuir</i> , 2018 , 34, 15150-15159	4	1
3	An Asymmetric Supercapacitor Diode (CAPode) for Unidirectional Energy Storage. <i>Angewandte Chemie</i> , 2019 , 131, 13194-13199	3.6	0
2	Measuring adsorption isotherms with a flowmeter and a pressure gauge. <i>Adsorption</i> , 2019 , 25, 809-817	2.6	
1	Unearthing of a new science from nanostructured carbons. <i>Tanso</i> , 2021 , 2021, 145-160	0.1	