

Katsumi Kaneko

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

94
papers

12,468
citations

34
h-index

96
g-index

96
ext. papers

15,089
ext. citations

7.2
avg. IF

6.45
L-index

#	Paper	IF	Citations
94	Apatite/Graphene Interface Channel-Aided Rapid and Selective H ₂ Permeation. <i>Journal of Physical Chemistry C</i> , 2022 , 126, 3653-3660	3.8	
93	Ultraparpermeable 2D-channeled graphene-wrapped zeolite molecular sieving membranes for hydrogen separation.. <i>Science Advances</i> , 2022 , 8, eabl3521	14.3	4
92	Unearthing of a new science from nanostructured carbons. <i>Tanso</i> , 2021 , 2021, 145-160	0.1	
91	Highly oxidation-resistant graphene-based porous carbon as a metal catalyst support. <i>Carbon Trends</i> , 2021 , 3, 100029	0	2
90	Nanopore structure analysis of single wall carbon nanotube xerogels and cryogels. <i>Adsorption</i> , 2021 , 27, 673-681	2.6	1
89	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
88	Structural adsorption mechanism of chloroform in narrow micropores of pitch-based activated carbon fibres. <i>Carbon</i> , 2021 , 171, 681-688	10.4	7
87	Graphene-Based Carbons of Tuned Nanoporosity and Crystallinity. <i>Engineering Materials</i> , 2021 , 153-174	0.4	
86	Adsorption separation of heavier isotope gases in subnanometer carbon pores. <i>Nature Communications</i> , 2021 , 12, 546	17.4	6
85	Structural mechanism of reactivation with steam of pitch-based activated carbon fibers. <i>Journal of Colloid and Interface Science</i> , 2020 , 578, 422-430	9.3	10
84	Chemically and mechanically robust SWCNT based strain sensor with monotonous piezoresistive response for infrastructure monitoring. <i>Chemical Engineering Journal</i> , 2020 , 388, 124174	14.7	13
83	Mesoscopic cage-like structured single-wall carbon nanotube cryogels. <i>Microporous and Mesoporous Materials</i> , 2020 , 293, 109814	5.3	3
82	Reconstructing the fractal clusters of detonation nanodiamonds from small-angle X-ray scattering. <i>Carbon</i> , 2020 , 169, 349-356	10.4	3
81	Cu-phthalocyanine-mediated nanowindow production on single-wall carbon nanohorn. <i>Molecular Physics</i> , 2020 , e1815883	1.7	5
80	Unusual hygroscopic nature of nanodiamonds in comparison with well-known porous materials. <i>Journal of Colloid and Interface Science</i> , 2019 , 549, 133-139	9.3	4
79	Electrical conductivity changes of water-adsorbed nanodiamonds with thermal treatment. <i>Chemical Physics Letters: X</i> , 2019 , 2, 100018	2	1
78	A water-resilient carbon nanotube based strain sensor for monitoring structural integrity. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 19996-20005	13	22

77	Electric field assisted ion adsorption with nanoporous SWCNT electrodes. <i>Adsorption</i> , 2019 , 25, 1035-1041	16	2
76	Super-sieving effect in phenol adsorption from aqueous solutions on nanoporous carbon beads. <i>Carbon</i> , 2018 , 135, 12-20	10.4	21
75	Water-selective adsorption sites on detonation nanodiamonds. <i>Carbon</i> , 2018 , 139, 853-860	10.4	13
74	Nanostructured carbon materials for enhanced nitrobenzene adsorption: Physical vs. chemical surface properties. <i>Carbon</i> , 2018 , 139, 833-844	10.4	31
73	Air separation with graphene mediated by nanowindow-rim concerted motion. <i>Nature Communications</i> , 2018 , 9, 1812	17.4	42
72	Phenol Molecular Sheets Woven by Water Cavities in Hydrophobic Slit Nanospaces. <i>Langmuir</i> , 2018 , 34, 15150-15159	4	1
71	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
70	Charge-transfer mediated nanopore-controlled pyrene derivatives/graphene colloids. <i>Carbon</i> , 2018 , 139, 512-521	10.4	23
69	Structural prediction of graphitization and porosity in carbide-derived carbons. <i>Carbon</i> , 2017 , 119, 1-9	10.4	44
68	Partial breaking of the Coulombic ordering of ionic liquids confined in carbon nanopores. <i>Nature Materials</i> , 2017 , 16, 1225-1232	27	166
67	Water Adsorption Property of Hierarchically Nanoporous Detonation Nanodiamonds. <i>Langmuir</i> , 2017 , 33, 11180-11188	4	20
66	Nanoporosity Change on Elastic Relaxation of Partially Folded Graphene Monoliths. <i>Langmuir</i> , 2017 , 33, 14565-14570	4	8
65	Correlation in structure and properties of highly-porous graphene monoliths studied with a thermal treatment method. <i>Carbon</i> , 2016 , 96, 174-183	10.4	31
64	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
63	Adsorption of water vapor on mesoporosity-controlled single wall carbon nanohorn. <i>Colloids and Interface Science Communications</i> , 2015 , 5, 8-11	5.4	17
62	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
61	Comparative pore structure analysis of highly porous graphene monoliths treated at different temperatures with adsorption of N ₂ at 77.4K and of Ar at 87.3K and 77.4K. <i>Microporous and Mesoporous Materials</i> , 2015 , 209, 72-78	5.3	26
60	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

59	Toward in silico modeling of palladium-hydrogen-carbon nanohorn nanocomposites. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 11763-9	3.6	5
58	Carbon Molecular Sieves: Reconstruction of Atomistic Structural Models with Experimental Constraints. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 12996-13007	3.8	17
57	Activation routes for high surface area graphene monoliths from graphene oxide colloids. <i>Carbon</i> , 2014 , 76, 220-231	10.4	72
56	Conducting linear chains of sulphur inside carbon nanotubes. <i>Nature Communications</i> , 2013 , 4, 2162	17.4	176
55	Large area films of alternating graphene-carbon nanotube layers processed in water. <i>ACS Nano</i> , 2013 , 7, 10788-98	16.7	73
54	Dynamic quantum molecular sieving separation of D ₂ from H ₂ -D ₂ mixture with nanoporous materials. <i>Journal of the American Chemical Society</i> , 2012 , 134, 18483-6	16.4	50
53	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
52	Formation of CO(x)-free H ₂ and cup-stacked carbon nanotubes over nano-Ni dispersed single wall carbon nanohorns. <i>Langmuir</i> , 2012 , 28, 7564-71	4	6
51	Anomaly of CH ₄ molecular assembly confined in single-wall carbon nanohorn spaces. <i>Journal of the American Chemical Society</i> , 2011 , 133, 2022-4	16.4	31
50	Confinement in carbon nanospace-induced production of KI nanocrystals of high-pressure phase. <i>Journal of the American Chemical Society</i> , 2011 , 133, 10344-7	16.4	75
49	Effect of Catalyst Size on Hydrogen Storage Capacity of Pt-Impregnated Active Carbon via Spillover. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 1060-1063	6.4	74
48	Controlled growth of one-dimensional clusters of molybdenum atoms using double-walled carbon nanotube templating. <i>Applied Physics Letters</i> , 2009 , 94, 113105	3.4	7
47	Quantum Effects on Hydrogen Isotopes Adsorption in Nanopores. <i>Journal of Low Temperature Physics</i> , 2009 , 157, 352-373	1.3	37
46	Gas storage in soft 1D nano-tunnels by the induced fit of a serration structure. <i>CrystEngComm</i> , 2009 , 11, 347-350	3.3	5
45	High capacitance carbon-based xerogel film produced without critical drying. <i>Applied Physics Letters</i> , 2008 , 93, 193112	3.4	16
44	Direct Evidence on C-C Single Bonding in Single-Wall Carbon Nanohorn Aggregates. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 5572-5575	3.8	87
43	The growth of FeOOH microcrystals and chemisorption rate of NO. <i>Journal of Chemical Technology and Biotechnology</i> , 2007 , 37, 11-19	3.5	13
42	Mesopore-modified zeolites: preparation, characterization, and applications. <i>Chemical Reviews</i> , 2006 , 106, 896-910	68.1	922

41	Efficient H ₂ adsorption by nanopores of high-purity double-walled carbon nanotubes. <i>Journal of the American Chemical Society</i> , 2006 , 128, 12636-7	16.4	44
40	Enhancement of the methylene blue adsorption rate for ultramicroporous carbon fiber by addition of mesopores. <i>Carbon</i> , 2006 , 44, 1884-1890	10.4	60
39	Developments and structures of mesopores in alkaline-treated ZSM-5 zeolites. <i>Adsorption</i> , 2006 , 12, 309-316	2.6	30
38	Storage of hydrogen at 303 K in graphite slitlike pores from grand canonical Monte Carlo simulation. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 17174-83	3.4	92
37	Quantum effects on hydrogen isotope adsorption on single-wall carbon nanohorns. <i>Journal of the American Chemical Society</i> , 2005 , 127, 7511-6	16.4	175
36	Grand canonical monte carlo simulation study of methane adsorption at an open graphite surface and in slit-like carbon pores at 273 K. <i>Langmuir</i> , 2005 , 21, 5639-46	4	78
35	Microporosity Development of Single-Wall Carbon Nanohorn with Chemically Induced Coalescence of the Assembly Structure. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 17775-17782	3.4	34
34	Direct Thermal Fluorination of Single Wall Carbon Nanohorns. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 9614-9618	3.4	28
33	Activated Carbon Fibres of Different Cross-Sectional Morphologies. <i>Adsorption Science and Technology</i> , 2004 , 22, 517-522	3.6	1
32	Controlled Opening of Single-Wall Carbon Nanohorns by Heat Treatment in Carbon Dioxide. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 4479-4484	3.4	66
31	Uniform Mesopore-Donated Zeolite Y Using Carbon Aerogel Templating. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 10974-10976	3.4	137
30	Effect of Purification on Pore Structure of HiPco Single-Walled Carbon Nanotube Aggregates. <i>Nano Letters</i> , 2002 , 2, 385-388	11.5	97
29	Nanowindow-Induced Molecular Sieving Effect in a Single-Wall Carbon Nanohorn. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 12668-12669	3.4	69
28	Adsorption Properties of Templated Mesoporous Carbon (CMK-1) for Nitrogen and Supercritical Methane Experiment and GCMC Simulation. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 6523-6528	3.4	96
27	A new determination method of absolute adsorption isotherm of supercritical gases under high pressure with a special relevance to density-functional theory study. <i>Journal of Chemical Physics</i> , 2001 , 114, 4196-4205	3.9	114
26	Preformed monolayer-induced filling of molecules in micropores. <i>Chemical Physics Letters</i> , 2000 , 326, 158-162	2.5	27
25	Micropore Size Distribution of Activated Carbon Fiber Using the Density Functional Theory and Other Methods. <i>Langmuir</i> , 2000 , 16, 4300-4304	4	115
24	Structures and Properties of Atoms and Molecules Confined in Nanospaces. Structures and Properties of Atoms and Molecules Confined in Nanoporous Spaces.. <i>Hyomen Kagaku</i> , 2000 , 21, 2-9		1

23	Anomalous Magnetism of Activated Carbon Having Ultra High Surface Area. <i>Tanso</i> , 2000 , 2000, 218-222	0.1	2
22	Iron oxide films of a spinel structure from thermal decomposition of metal ion citrate complex. <i>Journal of Materials Research</i> , 1999 , 14, 2002-2006	2.5	9
21	A Remarkable Elevation of Freezing Temperature of CCl ₄ in Graphitic Micropores. <i>Journal of Physical Chemistry B</i> , 1999 , 103, 7061-7063	3.4	82
20	Freezing of simple fluids in microporous activated carbon fibers: Comparison of simulation and experiment. <i>Journal of Chemical Physics</i> , 1999 , 111, 9058-9067	3.9	141
19	Fundamentals of Gas Adsorption for Characterization of Carbon Materials. <i>Tanso</i> , 1999 , 1999, 50-53	0.1	3
18	Simulation study on the relationship between a high resolution \bar{V} -plot and the pore size distribution for activated carbon. <i>Carbon</i> , 1998 , 36, 1459-1467	10.4	236
17	Prediction of Hysteresis Disappearance in the Adsorption Isotherm of N ₂ on Regular Mesoporous Silica. <i>Langmuir</i> , 1998 , 14, 3079-3081	4	61
16	Ambient Temperature Reduction of NO to N ₂ in Ru-Tailored Carbon Subnanospace. <i>Journal of Physical Chemistry B</i> , 1997 , 101, 1938-1939	3.4	35
15	Molecular States of O ₂ Confined in a Carbon Nanospace from the Low-Temperature Magnetic Susceptibility. <i>Langmuir</i> , 1997 , 13, 1047-1053	4	13
14	Chemisorption and Photoadsorption of NO on Cerium(IV) Oxide. <i>Langmuir</i> , 1997 , 13, 5894-5899	4	13
13	Surface Fractal Dimension of Less-Crystalline Carbon Micropore Walls. <i>Journal of Physical Chemistry B</i> , 1997 , 101, 1845-1850	3.4	41
12	Structural Characterization of Heat-Treated Activated Carbon Fibers. <i>Journal of Porous Materials</i> , 1997 , 4, 181-186	2.4	20
11	A Molecular Simulation Study on Empirical Determination Method of Pore Structures of Activated Carbons. <i>Tanso</i> , 1997 , 1997, 159-166	0.1	1
10	Characterization of hydrated silicate glass microballoons. <i>Journal of Materials Research</i> , 1996 , 11, 2908-2915	3.5	10
9	Determination of pore size and pore size distribution. <i>Journal of Membrane Science</i> , 1994 , 96, 59-89	9.6	483
8	Nitrogen Adsorption in Slit Pores at Ambient Temperatures: Comparison of Simulation and Experiment. <i>Langmuir</i> , 1994 , 10, 4606-4609	4	193
7	Novel Structure of Microporous Activated Carbon Fibers and their Gas Adsorption. <i>Materials Research Society Symposia Proceedings</i> , 1994 , 349, 73		5
6	Intrapore field-dependent micropore filling of supercritical N ₂ in slit-shaped micropores. <i>Journal of Chemical Physics</i> , 1992 , 97, 8705-8711	3.9	110

- 5 The structural change of graphitization-controlled microporous carbon upon adsorption of H₂O and N₂. *Chemical Physics Letters*, **1992**, 191, 569-573 2.5 21
- 4 Real solid surfaces and fractal.. *Hyomen Kagaku*, **1991**, 12, 34-38
- 3 Evaluation of Micropore Width of Activated Carbon Fibers by MultiStage Micropore Filling Analysis. *Tanso*, **1989**, 1989, 288-295 0.1 12
- 2 Ferromagnetic Iron Oxides from Synthetic β -FeOOH by Vacuum Thermal Decomposition. *Journal of the Electrochemical Society*, **1984**, 131, 2435-2438 3.9 7
- 1 The Semiconductive Property of Gamma-Ferric Oxyhydroxide. *Journal of the Electrochemical Society*, **1975**, 122, 451-452 3.9 8