

# Hirofumi Kanoh

## List of Publications by Year in descending order

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227  
docs citations

227  
times ranked

11255  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mesopore-Modified Zeolites: Preparation, Characterization, and Applications. <i>Chemical Reviews</i> , 2006, 106, 896-910.	23.0	1,016
2	Bulk Production of a New Form of $sp^2$ Carbon: Crystalline Graphene Nanoribbons. <i>Nano Letters</i> , 2008, 8, 2773-2778.	4.5	588
3	Manganese oxide porous crystals. <i>Journal of Materials Chemistry</i> , 1999, 9, 319-333.	6.7	476
4	ZSM-5 Monolith of Uniform Mesoporous Channels. <i>Journal of the American Chemical Society</i> , 2003, 125, 6044-6045.	6.6	466
5	Nanowindow-Regulated Specific Capacitance of Supercapacitor Electrodes of Single-Wall Carbon Nanohorns. <i>Journal of the American Chemical Society</i> , 2007, 129, 20-21.	6.6	305
6	Recovery of Lithium from Seawater Using Manganese Oxide Adsorbent ( $H_{1.6}Mn_{1.6}O_4$ ) Derived from $Li_{1.6}Mn_{1.6}O_4$ . <i>Industrial &amp; Engineering Chemistry Research</i> , 2001, 40, 2054-2058.	1.8	271
7	Novel Expansion/Shrinkage Modulation of 2D Layered MOF Triggered by Clathrate Formation with $CO_2$ Molecules. <i>Nano Letters</i> , 2006, 6, 2581-2584.	4.5	254
8	Effect of Nanoscale Curvature of Single-Walled Carbon Nanotubes on Adsorption of Polycyclic Aromatic Hydrocarbons. <i>Nano Letters</i> , 2007, 7, 583-587.	4.5	253
9	Lattice Dynamics and Vibrational Spectra of Lithium Manganese Oxides: A Computer Simulation and Spectroscopic Study. <i>Journal of Physical Chemistry B</i> , 1999, 103, 5175-5180.	1.2	242
10	Swelling and Delamination Behaviors of Birnessite-Type Manganese Oxide by Intercalation of Tetraalkylammonium Ions. <i>Langmuir</i> , 2000, 16, 4154-4164.	1.6	234
11	Lithium(1+) extraction/insertion with spinel-type lithium manganese oxides. Characterization of redox-type and ion-exchange-type sites. <i>Langmuir</i> , 1992, 8, 1861-1867.	1.6	203
12	Quantum Effects on Hydrogen Isotope Adsorption on Single-Wall Carbon Nanohorns. <i>Journal of the American Chemical Society</i> , 2005, 127, 7511-7516.	6.6	189
13	Double-Step Gas Sorption of a Two-Dimensional Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2007, 129, 12362-12363.	6.6	189
14	A New Type of Manganese Oxide ( $MnO_2 \cdot 0.5H_2O$ ) Derived from $Li_{1.6}Mn_{1.6}O_4$ and Its Lithium Ion-Sieve Properties. <i>Chemistry of Materials</i> , 2000, 12, 3151-3157.	3.2	188
15	Hydrothermal Synthesis of Lithium and Sodium Manganese Oxides and Their Metal Ion Extraction/Insertion Reactions. <i>Chemistry of Materials</i> , 1995, 7, 1226-1232.	3.2	160
16	Alkali Metal Ions Insertion/Extraction Reactions with Hollandite-Type Manganese Oxide in the Aqueous Phase. <i>Chemistry of Materials</i> , 1995, 7, 148-153.	3.2	152
17	Uniform Mesopore-Donated Zeolite Y Using Carbon Aerogel Templating. <i>Journal of Physical Chemistry B</i> , 2003, 107, 10974-10976.	1.2	148
18	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, 1560-1562.	6.6	138

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19	Opening Mechanism of Internal Nanoporosity of Single-Wall Carbon Nanohorn. <i>Journal of Physical Chemistry B</i> , 2005, 109, 14319-14324.	1.2	130
20	The addition of mesoporosity to activated carbon fibers by a simple reactivation process. <i>Carbon</i> , 2005, 43, 855-857.	5.4	126
21	Metal ion extraction/insertion reactions with todorokite-type manganese oxide in the aqueous phase. <i>Chemistry of Materials</i> , 1995, 7, 1722-1727.	3.2	122
22	Phenanthrene Adsorption from Solution on Single Wall Carbon Nanotubes. <i>Journal of Physical Chemistry B</i> , 2006, 110, 16219-16224.	1.2	122
23	Cadmium(II) adsorption using functional mesoporous silica and activated carbon. <i>Journal of Hazardous Materials</i> , 2012, 221-222, 220-227.	6.5	119
24	Flexible Two-Dimensional Square-Grid Coordination Polymers: Structures and Functions. <i>International Journal of Molecular Sciences</i> , 2010, 11, 3803-3845.	1.8	113
25	Super Flexibility of a 2D Cu-Based Porous Coordination Framework on Gas Adsorption in Comparison with a 3D Framework of Identical Composition: Framework Dimensionality-Dependent Gas Adsorptivities. <i>Journal of the American Chemical Society</i> , 2011, 133, 10512-10522.	6.6	112
26	Adsorption of polyaromatic hydrocarbons on single wall carbon nanotubes of different functionalities and diameters. <i>Journal of Colloid and Interface Science</i> , 2007, 314, 18-24.	5.0	110
27	Direct Evidence on C-C Single Bonding in Single-Wall Carbon Nanohorn Aggregates. <i>Journal of Physical Chemistry C</i> , 2007, 111, 5572-5575.	1.5	104
28	Elastic layer-structured metal organic frameworks (ELMs). <i>Journal of Colloid and Interface Science</i> , 2009, 334, 1-7.	5.0	104
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, 11860-11861.	6.6	96
30	Electrochemical Intercalation of Alkali-Metal Ions into Birnessite-Type Manganese Oxide in Aqueous Solution. <i>Langmuir</i> , 1997, 13, 6845-6849.	1.6	94
31	Quantum Sieving Effect of Three-Dimensional Cu-Based Organic Framework for H <sub>2</sub> and D <sub>2</sub> . <i>Journal of the American Chemical Society</i> , 2008, 130, 6367-6372.	6.6	94
32	Synthesis of Mesoporous Zeolite A by Resorcinol-Formaldehyde Aerogel Templating. <i>Langmuir</i> , 2005, 21, 504-507.	1.6	93
33	Reversible Structural Change of Cu-MOF on Exposure to Water and Its CO <sub>2</sub> Adsorptivity. <i>Langmuir</i> , 2009, 25, 4510-4513.	1.6	90
34	Synthesis of Li <sub>1.33</sub> Mn <sub>1.67</sub> O <sub>4</sub> spinels with different morphologies and their ion adsorptivities after delithiation. <i>Journal of Materials Chemistry</i> , 2000, 10, 1903-1909.	6.7	89
35	Effects of Gas Adsorption on the Electrical Conductivity of Single-Wall Carbon Nanohorns. <i>Nano Letters</i> , 2006, 6, 1325-1328.	4.5	89
36	Flexible transparent conducting single-wall carbon nanotube film with network bridging method. <i>Journal of Colloid and Interface Science</i> , 2008, 318, 365-371.	5.0	87

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37	Preparation of Plate-Form Manganese Oxide by Selective Lithium Extraction from Monoclinic $\text{Li}_2\text{MnO}_3$ under Hydrothermal Conditions. <i>Chemistry of Materials</i> , 2000, 12, 3271-3279.	3.2	86
38	Confinement in Carbon Nanospace-Induced Production of KI Nanocrystals of High-Pressure Phase. <i>Journal of the American Chemical Society</i> , 2011, 133, 10344-10347.	6.6	86
39	Theoretical Estimation of Lithium Isotopic Reduced Partition Function Ratio for Lithium Ions in Aqueous Solution. <i>Journal of Physical Chemistry A</i> , 2001, 105, 602-613.	1.1	81
40	Comparative Study on Pore Structures of Mesoporous ZSM-5 from Resorcinol-Formaldehyde Aerogel and Carbon Aerogel Templating. <i>Journal of Physical Chemistry B</i> , 2005, 109, 194-199.	1.2	79
41	Cluster-Associated Filling of Water in Hydrophobic Carbon Micropores. <i>Journal of Physical Chemistry B</i> , 2004, 108, 14043-14048.	1.2	78
42	Quantum Effects on Hydrogen Adsorption in Internal Nanospaces of Single-Wall Carbon Nanohorns. <i>Journal of Physical Chemistry B</i> , 2004, 108, 17457-17465.	1.2	75
43	Adsorption Behaviors of HiPco Single-Walled Carbon Nanotube Aggregates for Alcohol Vapors. <i>Journal of Physical Chemistry B</i> , 2002, 106, 8994-8999.	1.2	74
44	Cluster-Growth-Induced Water Adsorption in Hydrophobic Carbon Nanopores. <i>Journal of Physical Chemistry B</i> , 2004, 108, 14964-14969.	1.2	72
45	Enhancement of the methylene blue adsorption rate for ultramicroporous carbon fiber by addition of mesopores. <i>Carbon</i> , 2006, 44, 1884-1890.	5.4	71
46	Selective electroinsertion of lithium ions into a platinum/ $\lambda$ -manganese dioxide electrode in the aqueous phase. <i>Langmuir</i> , 1991, 7, 1841-1842.	1.6	69
47	Equilibration-time and pore-width dependent hysteresis of water adsorption isotherm on hydrophobic microporous carbons. <i>Carbon</i> , 2010, 48, 305-308.	5.4	69
48	Metal-Ion-Dependent Gas Sorptivity of Elastic Layer-Structured MOFs. <i>Chemistry - A European Journal</i> , 2009, 15, 7549-7553.	1.7	68
49	Synthesis of spinel-type lithium antimony manganese oxides and their $\text{Li}^+$ extraction/ion insertion reactions. <i>Journal of Materials Chemistry</i> , 2000, 10, 2325-2329.	6.7	67
50	Clathrate-Formation Mediated Adsorption of Methane on Cu-Complex Crystals. <i>Journal of Physical Chemistry B</i> , 2005, 109, 13851-13853.	1.2	67
51	Structures and Stability of Water Nanoclusters in Hydrophobic Nanospaces. <i>Nano Letters</i> , 2005, 5, 227-230.	4.5	67
52	Synthesis of lithium manganese oxide in different lithium-containing fluxes. <i>Journal of Materials Chemistry</i> , 1999, 9, 2683-2690.	6.7	63
53	Marked Adsorption Irreversibility of Graphitic Nanoribbons for $\text{CO}_2$ and $\text{H}_2\text{O}$ . <i>Journal of the American Chemical Society</i> , 2011, 133, 14880-14883.	6.6	62
54	Water Cluster Growth in Hydrophobic Solid Nanospaces. <i>Chemistry - A European Journal</i> , 2005, 11, 4890-4894.	1.7	60

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55	Kinetic Properties of a Pt/Lambda-MnO <sub>2</sub> Electrode for the Electroinsertion of Lithium Ions in an Aqueous Phase. <i>Journal of the Electrochemical Society</i> , 1995, 142, 702-707.	1.3	59
56	AC Impedance Analysis for Li <sup>+</sup> Insertion of a Pt/Lambda-MnO <sub>2</sub> Electrode in an Aqueous Phase. <i>Journal of the Electrochemical Society</i> , 1996, 143, 2610-2615.	1.3	58
57	Organic-Inorganic Hybrid Polymer-Encapsulated Magnetic Nanobead Catalysts. <i>Chemistry - A European Journal</i> , 2008, 14, 882-885.	1.7	58
58	Synthesis of Thermally Stable Silica-Pillared Layered Manganese Oxide by an Intercalation/Solvothermal Reaction. <i>Chemistry of Materials</i> , 2001, 13, 473-478.	3.2	57
59	Palladium Nanoclusters Deposited on Single-Walled Carbon Nanohorns. <i>Journal of Physical Chemistry B</i> , 2005, 109, 3711-3714.	1.2	55
60	RBM band shift-evidenced dispersion mechanism of single-wall carbon nanotube bundles with NaDDBS. <i>Journal of Colloid and Interface Science</i> , 2007, 308, 276-284.	5.0	55
61	Quantum Sieving Effect of Modified Activated Carbon Fibers on H <sub>2</sub> and D <sub>2</sub> Adsorption at 20 K. <i>Journal of Physical Chemistry B</i> , 2006, 110, 9764-9767.	1.2	54
62	Tuning of Gate Opening of an Elastic Layered Structure MOF in CO <sub>2</sub> Sorption with a Trace of Alcohol Molecules. <i>Langmuir</i> , 2011, 27, 6905-6909.	1.6	54
63	Synthesis and Borate Uptake of Two Novel Chelating Resins. <i>Industrial &amp; Engineering Chemistry Research</i> , 2002, 41, 133-138.	1.8	53
64	Lithium Ion Extraction from Orthorhombic LiMnO <sub>2</sub> in Ammonium Peroxodisulfate Solutions. <i>Journal of Solid State Chemistry</i> , 1999, 142, 19-28.	1.4	51
65	Assembly structure control of single wall carbon nanotubes with liquid phase naphthalene adsorption. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2007, 300, 117-121.	2.3	51
66	Efficient H <sub>2</sub> Adsorption by Nanopores of High-Purity Double-Walled Carbon Nanotubes. <i>Journal of the American Chemical Society</i> , 2006, 128, 12636-12637.	6.6	50
67	Effect of a Quaternary Ammonium Salt on Propylene Carbonate Structure in Slit-Shape Carbon Nanopores. <i>Journal of the American Chemical Society</i> , 2010, 132, 2112-2113.	6.6	49
68	Evaluation of an Effective Gas Storage Amount of Latent Nanoporous Cu-Based Metal-Organic Framework. <i>Journal of Physical Chemistry C</i> , 2007, 111, 248-254.	1.5	47
69	Li <sup>+</sup> Extraction/Insertion Reactions with LiZn <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> Spinel in the Aqueous Phase. <i>Chemistry of Materials</i> , 1995, 7, 379-384.	3.2	46
70	Conductive and Mesoporous Single-Wall Carbon Nanohorn/Organic Aerogel Composites. <i>Langmuir</i> , 2007, 23, 9155-9157.	1.6	45
71	Structural and surface property changes of macadamia nut-shell char upon activation and high temperature treatment. <i>Carbon</i> , 2002, 40, 1231-1239.	5.4	44
72	Preparing a Magnetically Responsive Single-Wall Carbon Nanohorn Colloid by Anchoring Magnetite Nanoparticles. <i>Journal of Physical Chemistry B</i> , 2006, 110, 7165-7170.	1.2	44

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73	Gas Adsorption Mechanism and Kinetics of an Elastic Layer-Structured Metal-Organic Framework. <i>Journal of Physical Chemistry C</i> , 2012, 116, 4157-4162.	1.5	44
74	Lithium(1+) and magnesium(2+) extraction and lithium(1+) insertion reactions with lithium magnesium manganese oxide (LiMg <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> ) spinel in the aqueous phase. <i>Chemistry of Materials</i> , 1993, 5, 311-316.	3.2	41
75	Evidence of Dynamic Pentagon-Heptagon Pairs in Single-Wall Carbon Nanotubes using Surface-Enhanced Raman Scattering. <i>Journal of the American Chemical Society</i> , 2010, 132, 6764-6767.	6.6	41
76	Adsorption of water on three-dimensional pillared-layer metal organic frameworks. <i>Journal of Colloid and Interface Science</i> , 2007, 314, 422-426.	5.0	40
77	Rapid Water Transportation through Narrow One-Dimensional Channels by Restricted Hydrogen Bonds. <i>Langmuir</i> , 2013, 29, 1077-1082.	1.6	40
78	Equilibrium Potentials of Spinel-Type Manganese Oxide in Aqueous Solutions. <i>Journal of the Electrochemical Society</i> , 1993, 140, 3162-3166.	1.3	39
79	Synthesis of Layered-Type Hydrated Manganese Oxides from Monoclinic-Type LiMnO <sub>2</sub> . <i>Journal of Solid State Chemistry</i> , 2001, 160, 69-76.	1.4	39
80	Thermal-Treatment-Induced Enhancement in Effective Surface Area of Single-Walled Carbon Nanohorns for Supercapacitor Application. <i>Journal of Physical Chemistry C</i> , 2013, 117, 25877-25883.	1.5	39
81	Quantum Effects on Hydrogen Isotopes Adsorption in Nanopores. <i>Journal of Low Temperature Physics</i> , 2009, 157, 352-373.	0.6	38
82	Dynamic Changes in Dimensional Structures of Co-Complex Crystals. <i>Inorganic Chemistry</i> , 2010, 49, 9247-9252.	1.9	37
83	Enhancement of H <sub>2</sub> and CH <sub>4</sub> adsorptivities of single wall carbon nanotubes produced by mixed acid treatment. <i>Carbon</i> , 2008, 46, 611-617.	5.4	36
84	Enhanced Hydrogen Adsorptivity of Single-Wall Carbon Nanotube Bundles by One-Step Pillaring Method. <i>Nano Letters</i> , 2009, 9, 3694-3698.	4.5	35
85	Intensive Edge Effects of Nanographenes in Molecular Adsorptions. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 511-516.	2.1	35
86	Magnetic Spin States of O <sub>2</sub> Confined in a Graphitic Slit-Shaped Nanospace at Low Temperature. <i>The Journal of Physical Chemistry</i> , 1996, 100, 755-759.	2.9	34
87	A novel nanoporous graphitic composite. <i>Chemical Communications</i> , 2002, , 1696-1697.	2.2	34
88	Examination of synthesis conditions for graphite-derived nanoporous carbon-silica composites. <i>Carbon</i> , 2006, 44, 2479-2488.	5.4	34
89	Developments and structures of mesopores in alkaline-treated ZSM-5 zeolites. <i>Adsorption</i> , 2006, 12, 309-316.	1.4	34
90	Catalytic activities of Pd-tailored single wall carbon nanohorns. <i>Carbon</i> , 2008, 46, 172-175.	5.4	34

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91	Comparative examination of titania nanocrystals synthesized by peroxy titanate approach from different precursors. <i>Journal of Colloid and Interface Science</i> , 2008, 322, 497-504.	5.0	33
92	Anomaly of CH <sub>4</sub> Molecular Assembly Confined in Single-Wall Carbon Nanohorn Spaces. <i>Journal of the American Chemical Society</i> , 2011, 133, 2022-2024.	6.6	33
93	Significant Hydration Shell Formation Instead of Hydrogen Bonds in Nanoconfined Aqueous Electrolyte Solutions. <i>Journal of the American Chemical Society</i> , 2012, 134, 17850-17853.	6.6	33
94	Direct Thermal Fluorination of Single Wall Carbon Nanohorns. <i>Journal of Physical Chemistry B</i> , 2004, 108, 9614-9618.	1.2	32
95	Kinetics and Structural Changes in CO <sub>2</sub> Capture of K <sub>2</sub> CO <sub>3</sub> under a Moist Condition. <i>Energy &amp; Fuels</i> , 2015, 29, 4472-4478.	2.5	32
96	Quantum Molecular Sieving Effects of H <sub>2</sub> and D <sub>2</sub> on Bundled and Nonbundled Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2012, 116, 20918-20922.	1.5	31
97	Double-Step Gate Phenomenon in CO <sub>2</sub> Sorption of an Elastic Layer-Structured MOF. <i>Langmuir</i> , 2016, 32, 9722-9726.	1.6	29
98	Direct $\alpha$ -Hydroxylation of Ketones Catalyzed by Organic-Inorganic Hybrid Polymer. <i>Chemistry Letters</i> , 2006, 35, 1094-1095.	0.7	28
99	Coordination Symmetry-Dependent Structure Restoration Function of One-Dimensional MOFs by Molecular Respiration. <i>Journal of Physical Chemistry B</i> , 2006, 110, 25565-25567.	1.2	27
100	Novel Nanostructures of Porous Carbon Synthesized with Zeolite LTA-Template and Methanol. <i>Journal of Physical Chemistry C</i> , 2007, 111, 2459-2464.	1.5	27
101	Fine Nanostructure Analysis of Single-Wall Carbon Nanohorns by Surface-Enhanced Raman Scattering. <i>Journal of Physical Chemistry C</i> , 2008, 112, 7552-7556.	1.5	27
102	Pyrolyzed phthalocyanines as surrogate carbon catalysts: Initial insights into oxygen-transfer mechanisms. <i>Fuel</i> , 2012, 99, 106-117.	3.4	27
103	Nanoscale Curvature Effect on Ordering of N <sub>2</sub> Molecules Adsorbed on Single Wall Carbon Nanotube. <i>Journal of Physical Chemistry C</i> , 2007, 111, 15660-15663.	1.5	26
104	Grand canonical Monte Carlo simulations of nitrogen adsorption on graphene materials with varying layer number. <i>Carbon</i> , 2013, 61, 40-46.	5.4	26
105	Lithium Isotope Fractionations on Inorganic Ion-Exchangers with Different Ion-Sieve Properties. <i>Separation Science and Technology</i> , 1995, 30, 3761-3770.	1.3	25
106	Cluster Structures of Supercritical CH <sub>4</sub> Confined in Carbon Nanospaces with in Situ High-Pressure Small-Angle X-ray Scattering and Grand Canonical Monte Carlo Simulation. <i>Journal of Physical Chemistry B</i> , 2004, 108, 27-30.	1.2	25
107	Micropore to Macropore Structure-Designed Silicas with Regulated Condensation of Silicic Acid Nanoparticles. <i>Langmuir</i> , 2005, 21, 8042-8047.	1.6	25
108	Vertically Oriented Propylene Carbonate Molecules and Tetraethyl Ammonium Ions in Carbon Slit Pores. <i>Journal of Physical Chemistry C</i> , 2013, 117, 5752-5757.	1.5	25

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109	Synthesis of $\alpha$ -LiMnO <sub>2</sub> by Microwave Irradiation and Subsequent Heat Treatment and Lithium Exchange. <i>Journal of Solid State Chemistry</i> , 2002, 163, 1-4.	1.4	24
110	Magnetically Separable Cu-Carboxylate MOF Catalyst for the Henry Reaction. <i>Synlett</i> , 2012, 23, 1549-1553.	1.0	24
111	Random Magnetism of O <sub>2</sub> Confined in a Slit-Shaped Graphitic Nanospace at Low Temperature. <i>The Journal of Physical Chemistry</i> , 1995, 99, 5746-5748.	2.9	23
112	Catalytic Synthesis of $\beta$ -Hydroxy Ketones Using Organic-Inorganic Hybrid Polymer. <i>Chemistry Letters</i> , 2005, 34, 1590-1591.	0.7	23
113	Quasi One-Dimensional Nanopores in Single-Wall Carbon Nanohorn Colloids Using Grand Canonical Monte Carlo Simulation Aided Adsorption Technique. <i>Journal of Physical Chemistry B</i> , 2005, 109, 8659-8662.	1.2	23
114	Defluorination-enhanced hydrogen adsorptivity of activated carbon fibers. <i>Carbon</i> , 2007, 45, 1391-1395.	5.4	23
115	Unique Hydrogen-Bonded Structure of Water around Ca Ions Confined in Carbon Slit Pores. <i>Journal of Physical Chemistry C</i> , 2009, 113, 12622-12624.	1.5	23
116	Superuniform Molecular Nanogate Fabrication on Graphene Sheets of Single Wall Carbon Nanohorns for Selective Molecular Separation of CO <sub>2</sub> and CH <sub>4</sub> . <i>Chemistry Letters</i> , 2011, 40, 1089-1091.	0.7	23
117	Electrochromic Behavior of a $\lambda$ -MnO <sub>2</sub> Electrode Accompanying Li <sup>+</sup> Insertion in an Aqueous Phase. <i>Journal of the Electrochemical Society</i> , 1996, 143, 905-907.	1.3	22
118	Supercritical Hydrogen Adsorption of Ultramicropore-Enriched Single-Wall Carbon Nanotube Sheet. <i>Journal of Physical Chemistry C</i> , 2007, 111, 17448-17450.	1.5	22
119	Structural Anomalies of Rb and Br Ionic Nanosolutions in Hydrophobic Slit-Shaped Solid Space as Revealed by the EXAFS Technique. <i>Journal of Physical Chemistry B</i> , 2003, 107, 13616-13622.	1.2	21
120	Selective D <sub>2</sub> adsorption enhanced by the quantum sieving effect on entangled single-wall carbon nanotubes. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 334207.	0.7	21
121	Influence of surface functionalities on ethanol adsorption characteristics in activated carbons for adsorption heat pumps. <i>Applied Thermal Engineering</i> , 2014, 72, 160-165.	3.0	21
122	Wide Carbon Nanopores as Efficient Sites for the Separation of SF <sub>6</sub> from N <sub>2</sub> . <i>Scientific Reports</i> , 2015, 5, 11994.	1.6	21
123	Nanoporosities and catalytic activities of Pd-tailored single wall carbon nanohorns. <i>Journal of Colloid and Interface Science</i> , 2008, 322, 209-214.	5.0	18
124	Mechanism of Sequential Water Transportation by Water Loading and Release in Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 1211-1215.	2.1	18
125	Electronically modified single wall carbon nanohorns with iodine adsorption. <i>Chemical Physics Letters</i> , 2011, 501, 485-490.	1.2	17
126	A flexible two-dimensional layered metal-organic framework functionalized with (trifluoromethyl)trifluoroborate: synthesis, crystal structure, and adsorption/separation properties. <i>Dalton Transactions</i> , 2020, 49, 3692-3699.	1.6	17



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127	Porous properties of poly(glycidyl methacrylate-co-trimethylolpropane trimethacrylate) resins synthesized by suspension polymerization. <i>Journal of Applied Polymer Science</i> , 2002, 83, 2374-2381.	1.3	16
128	New approach to determination of surface heterogeneity of adsorbents and catalysts from the temperature programmed desorption (TPD) technique: One step beyond the condensation approximation (CA) method. <i>Journal of Colloid and Interface Science</i> , 2005, 291, 334-344.	5.0	16
129	High capacitance carbon-based xerogel film produced without critical drying. <i>Applied Physics Letters</i> , 2008, 93, 193112.	1.5	16
130	Physico-Chemical Properties of Iodine-Adsorbed Single-Walled Carbon Nanotubes. <i>Langmuir</i> , 2009, 25, 1795-1799.	1.6	16
131	Interstitial nanopore change of single wall carbon nanohorn assemblies with high temperature treatment. <i>Chemical Physics Letters</i> , 2004, 389, 332-336.	1.2	15
132	The evaluation of the surface heterogeneity of carbon blacks from the lattice density functional theory. <i>Carbon</i> , 2004, 42, 1813-1823.	5.4	15
133	Recyclable Poly $\text{Zn}_{3}(\text{OAc})_{4}^{\text{3,3}}$ Bis(aminoimino)binaphthoxide Catalyst for Asymmetric Iodolactonization. <i>ChemCatChem</i> , 2015, 7, 3234-3238.	1.8	15
134	Gaseous Molecular Sieving Property of a Microporous Hollandite-type Hydrous Manganese Oxide. <i>Chemistry Letters</i> , 2000, 29, 560-561.	0.7	14
135	Predominant nanoscale growth in single-walled carbon nanotubes by water-vapor loading. <i>RSC Advances</i> , 2012, 2, 3634.	1.7	14
136	Enhanced $\text{CO}_2$ Adsorptivity of Partially Charged Single Walled Carbon Nanotubes by Methylene Blue Encapsulation. <i>Journal of Physical Chemistry C</i> , 2012, 116, 11216-11222.	1.5	14
137	Energetic contribution to hydration shells in one-dimensional aqueous electrolyte solution by anomalous hydrogen bonds. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 5658.	1.3	14
138	Adsorption properties of an activated carbon for 18 cytokines and HMGB1 from inflammatory model plasma. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 126, 58-62.	2.5	14
139	Magnetic spin clusters of $\text{O}_2$ confined in a slit-shaped graphitic nanospace at low temperature. <i>Chemical Physics Letters</i> , 1995, 237, 329-333.	1.2	13
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