Kenji Hata

List of Publications by Year
in descending order

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41 papers	9,399 citations	147726 31 h-index	302012 39 g-index
41 all docs	41 docs citations	41 times ranked	11953 citing authors

#	Article	IF	Citations
1	Virtual experimentations by deep learning on tangible materials. Communications Materials, 2021, 2, .	2.9	16
2	Classification of Commercialized Carbon Nanotubes into Three General Categories as a Guide for Applications. ACS Applied Nano Materials, 2019, 2, 4043-4047.	2.4	39
3	Interplay of wall number and diameter on the electrical conductivity of carbon nanotube thin films. Carbon, 2014, 67, 318-325.	5.4	56
4	Compact and Light Supercapacitor Electrodes from a Surfaceâ€Only Solid by Opened Carbon Nanotubes with 2â€‰200 m² g^{â^'1} Surface Area. Advanced Functional Materials, 2010, 20, 422-428.	7.8	145
5	Extracting the Full Potential of Singleâ€Walled Carbon Nanotubes as Durable Supercapacitor Electrodes Operable at 4 V with High Power and Energy Density. Advanced Materials, 2010, 22, E235-41.	11.1	582
6	Efficient dispersing and shortening of super-growth carbon nanotubes by ultrasonic treatment with ceramic balls and surfactants. Advanced Powder Technology, 2010, 21, 551-555.	2.0	32
7	Outer-specific surface area as a gauge for absolute purity of single-walled carbon nanotube forests. Carbon, 2010, 48, 4542-4546.	5.4	21
8	Intrinsic Magnetoresistance of Single-Walled Carbon Nanotubes Probed by a Noncontact Method. Physical Review Letters, 2010, 104, 016803.	2.9	13
9	Integration of SWNT film into MEMS for a micro-thermoelectric device. Smart Materials and Structures, 2010, 19, 075003.	1.8	25
10	Selective D₂adsorption enhanced by the quantum sieving effect on entangled single-wall carbon nanotubes. Journal of Physics Condensed Matter, 2010, 22, 334207.	0.7	21
11	Hole Opening of Carbon Nanotubes and Their Capacitor Performance. Energy & Fuels, 2010, 24, 3373-3377.	2.5	39
12	Mechanical Properties of Beams from Self-Assembled Closely Packed and Aligned Single-Walled Carbon Nanotubes. Physical Review Letters, 2009, 102, 175505.	2.9	23
13	Thermal Diffusivity of Single-Walled Carbon Nanotube Forest Measured by Laser Flash Method. Japanese Journal of Applied Physics, 2009, 48, 05EC07.	0.8	59
14	Highly Conductive Sheets from Millimeterâ€Long Singleâ€Walled Carbon Nanotubes and Ionic Liquids: Application to Fastâ€Moving, Lowâ€Voltage Electromechanical Actuators Operable in Air. Advanced Materials, 2009, 21, 1582-1585.	11.1	230
15	General Rules Governing the Highly Efficient Growth of Carbon Nanotubes. Advanced Materials, 2009, 21, 4811-4815.	11.1	91
16	Stretchable active-matrix organic light-emitting diode display using printable elastic conductors. Nature Materials, 2009, 8, 494-499.	13.3	1,620
17	Observations of bound Tween80 surfactant molecules on single-walled carbon nanotubes in an aqueous solution. Carbon, 2009, 47, 3434-3440.	5.4	36
18	Exploring Advantages of Diverse Carbon Nanotube Forests with Tailored Structures Synthesized by Supergrowth from Engineered Catalysts. ACS Nano, 2009, 3, 108-114.	7.3	144

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19	Improved and Large Area Single-Walled Carbon Nanotube Forest Growth by Controlling the Gas Flow Direction. ACS Nano, 2009, 3, 4164-4170.	7.3	130
20	Existence and Kinetics of Graphitic Carbonaceous Impurities in Carbon Nanotube Forests to Assess the Absolute Purity. Nano Letters, 2009, 9, 769-773.	4.5	70
21	A black body absorber from vertically aligned single-walled carbon nanotubes. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 6044-6047.	3.3	647
22	Dual Porosity Single-Walled Carbon Nanotube Material. Nano Letters, 2009, 9, 3302-3307.	4.5	38
23	A Background Level of Oxygen-Containing Aromatics for Synthetic Control of Carbon Nanotube Structure. Journal of the American Chemical Society, 2009, 131, 15992-15993.	6.6	35
24	Electrochemical doping of pure single-walled carbon nanotubes used as supercapacitor electrodes. Carbon, 2008, 46, 1999-2001.	5.4	108
25	Excitons and exciton-phonon coupling in metallic single-walled carbon nanotubes: Resonance Raman spectroscopy. Physical Review B, 2008, 78, .	1.1	52
26	Integrated three-dimensional microelectromechanical devices from processable carbon nanotube wafers. Nature Nanotechnology, 2008, 3, 289-294.	15.6	266
27	A Rubberlike Stretchable Active Matrix Using Elastic Conductors. Science, 2008, 321, 1468-1472.	6.0	1,265
28	Revealing the Secret of Water-Assisted Carbon Nanotube Synthesis by Microscopic Observation of the Interaction of Water on the Catalysts. Nano Letters, 2008, 8, 4288-4292.	4.5	195
29	Nanocomposite Ion Gels Based on Silica Nanoparticles and an Ionic Liquid: Ionic Transport, Viscoelastic Properties, and Microstructure. Journal of Physical Chemistry B, 2008, 112, 9013-9019.	1.2	200
30	Diagnostics and growth control of single-walled carbon nanotube forests using a telecentric optical system for in situ height monitoring. Applied Physics Letters, 2008, 93, 143115.	1.5	39
31	From highly efficient impurity-free CNT synthesis to DWNT forests, CNT solids, and super-capacitors. , 2007, , .		2
32	Water-Assisted Highly Efficient Synthesis of Single-Walled Carbon Nanotubes Forests from Colloidal Nanoparticle Catalysts. Journal of Physical Chemistry C, 2007, 111, 17961-17965.	1.5	47
33	Nanoscale Curvature Effect on Ordering of N₂ Molecules Adsorbed on Single Wall Carbon Nanotube. Journal of Physical Chemistry C, 2007, 111, 15660-15663.	1.5	26
34	84% Catalyst Activity of Water-Assisted Growth of Single Walled Carbon Nanotube Forest Characterization by a Statistical and Macroscopic Approach. Journal of Physical Chemistry B, 2006, 110, 8035-8038.	1.2	235
35	Synthesis of Single- and Double-Walled Carbon Nanotube Forests on Conducting Metal Foils. Journal of the American Chemical Society, 2006, 128, 13338-13339.	6.6	179
36	Dispersion and Separation of Small-Diameter Single-Walled Carbon Nanotubes [J. Am. Chem.Soc.2006,128, 12239â˜'12242].. Journal of the American Chemical Society, 2006, 128, 15547-15547.	6.6	0

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37	Dispersion and Separation of Small-Diameter Single-Walled Carbon Nanotubes. Journal of the American Chemical Society, 2006, 128, 12239-12242.	6.6	118
38	Shape-engineerable and highly densely packed single-walled carbon nanotubes and their application as super-capacitor electrodes. Nature Materials, 2006, 5, 987-994.	13.3	1,811
39	Size-selective growth of double-walled carbon nanotube forests from engineered iron catalysts. Nature Nanotechnology, 2006, 1, 131-136.	15.6	342
40	Kinetics of Water-Assisted Single-Walled Carbon Nanotube Synthesis Revealed by a Time-Evolution Analysis. Physical Review Letters, 2005, 95, 056104.	2.9	309
41	Atomic-Resolution Imaging of the Nucleation Points of Single-Walled Carbon Nanotubes. Small, 2005, 1, 1180-1183.	5.2	93