# Kenji Hata

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/3889302/publications.pdf

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| 41 | 9,399 | 31 | 39 |
|---|---|---|---|
| papers | citations | h-index | g-index |
| | | 147726 | 302012 |

| 41 | 41 | 41 | 11953 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | 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 |
| 2 | Stretchable active-matrix organic light-emitting diode display using printable elastic conductors. Nature Materials, 2009, 8, 494-499. | 13.3 | 1,620 |
| 3 | A Rubberlike Stretchable Active Matrix Using Elastic Conductors. Science, 2008, 321, 1468-1472. | 6.0 | 1,265 |
| 4 | 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 |
| 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 | Size-selective growth of double-walled carbon nanotube forests from engineered iron catalysts. Nature Nanotechnology, 2006, 1, 131-136. | 15.6 | 342 |
| 7 | Kinetics of Water-Assisted Single-Walled Carbon Nanotube Synthesis Revealed by a Time-Evolution Analysis. Physical Review Letters, 2005, 95, 056104. | 2.9 | 309 |
| 8 | Integrated three-dimensional microelectromechanical devices from processable carbon nanotube wafers. Nature Nanotechnology, 2008, 3, 289-294. | 15.6 | 266 |
| 9 | 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 |
| 10 | 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 |
| 11 | 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 |
| 12 | 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 |
| 13 | 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 |
| 14 | Compact and Light Supercapacitor Electrodes from a Surfaceâ€Only Solid by Opened Carbon Nanotubes with 2â€‰200 m<sup>2</sup> g<sup>â ’1</sup> Surface Area. Advanced Functional Materials, 2010, 20, 422-428. | 7.8 | 145 |
| 15 | 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 |
| 16 | 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 |
| 17 | Dispersion and Separation of Small-Diameter Single-Walled Carbon Nanotubes. Journal of the American Chemical Society, 2006, 128, 12239-12242. | 6.6 | 118 |
| 18 | Electrochemical doping of pure single-walled carbon nanotubes used as supercapacitor electrodes. Carbon, 2008, 46, 1999-2001. | 5.4 | 108 |

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|---|---|---|---|
| 19 | Atomic-Resolution Imaging of the Nucleation Points of Single-Walled Carbon Nanotubes. Small, 2005, 1, 1180-1183. | 5.2 | 93 |
| 20 | General Rules Governing the Highly Efficient Growth of Carbon Nanotubes. Advanced Materials, 2009, 21, 4811-4815. | 11.1 | 91 |
| 21 | 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 |
| 22 | Thermal Diffusivity of Single-Walled Carbon Nanotube Forest Measured by Laser Flash Method. Japanese Journal of Applied Physics, 2009, 48, 05EC07. | 0.8 | 59 |
| 23 | Interplay of wall number and diameter on the electrical conductivity of carbon nanotube thin films. Carbon, 2014, 67, 318-325. | 5.4 | 56 |
| 24 | Excitons and exciton-phonon coupling in metallic single-walled carbon nanotubes: Resonance Raman spectroscopy. Physical Review B, 2008, 78, . | 1.1 | 52 |
| 25 | 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 |
| 26 | 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 |
| 27 | Hole Opening of Carbon Nanotubes and Their Capacitor Performance. Energy & Fuels, 2010, 24, 3373-3377. | 2.5 | 39 |
| 28 | 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 |
| 29 | Dual Porosity Single-Walled Carbon Nanotube Material. Nano Letters, 2009, 9, 3302-3307. | 4.5 | 38 |
| 30 | Observations of bound Tween80 surfactant molecules on single-walled carbon nanotubes in an aqueous solution. Carbon, 2009, 47, 3434-3440. | 5.4 | 36 |
| 31 | 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 |
| 32 | 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 |
| 33 | Nanoscale Curvature Effect on Ordering of N<sub>2</sub> Molecules Adsorbed on Single Wall Carbon Nanotube. Journal of Physical Chemistry C, 2007, 111, 15660-15663. | 1.5 | 26 |
| 34 | Integration of SWNT film into MEMS for a micro-thermoelectric device. Smart Materials and Structures, 2010, 19, 075003. | 1.8 | 25 |
| 35 | Mechanical Properties of Beams from Self-Assembled Closely Packed and Aligned Single-Walled Carbon Nanotubes. Physical Review Letters, 2009, 102, 175505. | 2.9 | 23 |
| 36 | Outer-specific surface area as a gauge for absolute purity of single-walled carbon nanotube forests. Carbon, 2010, 48, 4542-4546. | 5.4 | 21 |

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|---|---|---|---|
| 37 | Selective D<sub>2</sub>adsorption enhanced by the quantum sieving effect on entangled single-wall carbon nanotubes. Journal of Physics Condensed Matter, 2010, 22, 334207. | 0.7 | 21 |
| 38 | Virtual experimentations by deep learning on tangible materials. Communications Materials, 2021, 2, . | 2.9 | 16 |
| 39 | Intrinsic Magnetoresistance of Single-Walled Carbon Nanotubes Probed by a Noncontact Method. Physical Review Letters, 2010, 104, 016803. | 2.9 | 13 |
| 40 | From highly efficient impurity-free CNT synthesis to DWNT forests, CNT solids, and super-capacitors. , 2007, , . | | 2 |
| 41 | Dispersion and Separation of Small-Diameter Single-Walled Carbon Nanotubes [J. Am. Chem.Soc.2006,128, 12239âˆ’12242].. Journal of the American Chemical Society, 2006, 128, 15547-15547. | 6.6 | 0 |