

Kei Hasegawa

List of Publications by Year in descending order

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37
papers

1,074
citations

361413

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395702

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all docs

38
docs citations

38
times ranked

1137
citing authors

#	ARTICLE	IF	CITATIONS
1	Millimeter-Thick Single-Walled Carbon Nanotube Forests: Hidden Role of Catalyst Support. Japanese Journal of Applied Physics, 2007, 46, L399-L401.	1.5	194
2	Millimeter-Tall Single-Walled Carbon Nanotubes Rapidly Grown with and without Water. ACS Nano, 2011, 5, 975-984.	14.6	118
3	Sub-millimeter-long carbon nanotubes repeatedly grown on and separated from ceramic beads in a single fluidized bed reactor. Carbon, 2011, 49, 1972-1979.	10.3	67
4	Moderating carbon supply and suppressing Ostwald ripening of catalyst particles to produce 4.5-mm-tall single-walled carbon nanotube forests. Carbon, 2011, 49, 4497-4504.	10.3	64
5	Dominant effect of the grain size of the MAPbI ₃ perovskite controlled by the surface roughness of TiO ₂ on the performance of perovskite solar cells. CrystEngComm, 2020, 22, 2718-2727.	2.6	47
6	Over 99.6 wt%-pure, sub-millimeter-long carbon nanotubes realized by fluidized-bed with careful control of the catalyst and carbon feeds. Carbon, 2014, 80, 339-350.	10.3	42
7	Growth Window and Possible Mechanism of Millimeter-Thick Single-Walled Carbon Nanotube Forests. Journal of Nanoscience and Nanotechnology, 2008, 8, 6123-6128.	0.9	40
8	Fluidized-bed synthesis of sub-millimeter-long single walled carbon nanotube arrays. Carbon, 2012, 50, 1538-1545.	10.3	38
9	Carbon nanotube 3D current collectors for lightweight, high performance and low cost supercapacitor electrodes. RSC Advances, 2014, 4, 8230.	3.6	38
10	Diameter Increase in Millimeter-Tall Vertically Aligned Single-Walled Carbon Nanotubes during Growth. Applied Physics Express, 2010, 3, 045103.	2.4	35
11	Lithium ion batteries made of electrodes with 99 wt% active materials and 1 wt% carbon nanotubes without binder or metal foils. Journal of Power Sources, 2016, 321, 155-162.	7.8	33
12	Millimeter-tall carbon nanotube arrays grown on aluminum substrates. Carbon, 2018, 130, 834-842.	10.3	32
13	Direct synthesis of few- and multi-layer graphene films on dielectric substrates by "etching-precipitation" method. Carbon, 2015, 82, 254-263.	10.3	31
14	Real-Time Monitoring of Millimeter-Tall Vertically Aligned Single-Walled Carbon Nanotube Growth on Combinatorial Catalyst Library. Japanese Journal of Applied Physics, 2010, 49, 085104.	1.5	29
15	Methane-Assisted Chemical Vapor Deposition Yielding Millimeter-Tall Single-Wall Carbon Nanotubes of Smaller Diameter. ACS Nano, 2013, 7, 6719-6728.	14.6	26
16	Overcoming the quality-quantity tradeoff in dispersion and printing of carbon nanotubes by a repetitive dispersion-extraction process. Carbon, 2015, 91, 20-29.	10.3	25
17	A Simple Combinatorial Method Aiding Research on Single-Walled Carbon Nanotube Growth on Substrates. Japanese Journal of Applied Physics, 2010, 49, 02BA02.	1.5	23
18	Flame-assisted chemical vapor deposition for continuous gas-phase synthesis of 1-nm-diameter single-wall carbon nanotubes. Carbon, 2018, 138, 1-7.	10.3	23

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19	Carbon nanotube-silicon heterojunction solar cells with surface-textured Si and solution-processed carbon nanotube films. RSC Advances, 2016, 6, 93575-93581.	3.6	22
20	A-few-second synthesis of silicon nanoparticles by gas-evaporation and their self-supporting electrodes based on carbon nanotube matrix for lithium secondary battery anodes. Journal of Power Sources, 2017, 363, 450-459.	7.8	21
21	Denser and taller carbon nanotube arrays on Cu foils useable as thermal interface materials. Japanese Journal of Applied Physics, 2015, 54, 095102.	1.5	20
22	50-100 nm-thick pseudocapacitive electrodes of MnO ₂ nanoparticles uniformly electrodeposited in carbon nanotube papers. RSC Advances, 2016, 6, 41496-41505.	3.6	14
23	Volumetric Discharge Capacity 1 A h cm ⁻³ Realized by Sulfur in Carbon Nanotube Sponge Cathodes. Journal of Physical Chemistry C, 2019, 123, 3951-3958.	3.1	13
24	Important factors for effective use of carbon nanotube matrices in electrochemical capacitor hybrid electrodes without binding additives. RSC Advances, 2015, 5, 16101-16111.	3.6	12
25	One-minute deposition of micrometre-thick porous Si-Cu anodes with compositional gradients on Cu current collectors for lithium secondary batteries. Journal of Power Sources, 2015, 286, 540-550.	7.8	11
26	A region-specific analysis of technology implementation of hydrogen energy in Japan. International Journal of Hydrogen Energy, 2019, 44, 19434-19451.	7.1	11
27	A region-specific environmental analysis of technology implementation of hydrogen energy in Japan based on life cycle assessment. Journal of Industrial Ecology, 2020, 24, 217-233.	5.5	11
28	Catalyst nucleation and carbon nanotube growth from flame-synthesized Co-Al-O nanopowders at ten-second time scale. Carbon, 2017, 114, 31-38.	10.3	7
29	Rapid vapour deposition and in situ melt crystallization for 1 min fabrication of 10 nm-thick crystalline silicon films with a lateral grain size of over 100 nm. CrystEngComm, 2016, 18, 3404-3410.	2.6	6
30	Thermal properties of single-walled carbon nanotube forests with various volume fractions. International Journal of Heat and Mass Transfer, 2021, 171, 121076.	4.8	6
31	Critical effect of nanometer-size surface roughness of a porous Si seed layer on the defect density of epitaxial Si films for solar cells by rapid vapor deposition. CrystEngComm, 2018, 20, 1774-1778.	2.6	5
32	Direct formation of continuous multilayer graphene films with controllable thickness on dielectric substrates. Thin Solid Films, 2019, 675, 136-142.	1.8	5
33	Nano-Scale Smoothing of Double Layer Porous Si Substrates for Detaching and Fabricating Low Cost, High Efficiency Monocrystalline Thin Film Si Solar Cell by Zone Heating Recrystallization. ECS Transactions, 2017, 75, 11-23.	0.5	2
34	Ten-Second Epitaxy of Cu on Repeatedly Used Sapphire for Practical Production of High-Quality Graphene. ACS Omega, 2017, 2, 3354-3362.	3.5	2
35	Techno-economic analysis on renewable energy via hydrogen, views from macro and micro scopes.. Energy Procedia, 2019, 158, 1949-1954.	1.8	1
36	Formation of Intermediate SiO ₂ nano-Layer As Effective Passivation at Si/TiO ₂ Interface By Zone Heating Recrystallization Toward Perovskite/Silicon Tandem Solar Cell. ECS Meeting Abstracts, 2020, MA2020-02, 1848-1848.	0.0	0

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37	Estimation of Surface Coverages on H ₂ /H ₂ O Electrode in Reversible Operation of Solid Oxide Fuel Cell/ Electrolysis Cell Using Electrochemical Kinetics with Optimized Parameter By Genetic Algorithm. ECS Meeting Abstracts, 2020, MA2020-02, 2510-2510.	0.0	0