Kei Hasegawa

List of Publications by Year
in descending order

37	1,074	361413 20	395702 33
papers	citations	h-index	g-index

38	38	38	1137
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	Dominant effect of the grain size of the MAPbI₃ perovskite controlled by the surface roughness of TiO₂ on the performance of perovskite solar cells. CrystEngComm, 2020, 22, 2718-2727.	2.6	47
3	A regionâ€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
4	Formation of Intermediate SiO2 nano-Layer As Effective Passivation at Si/TiO2 Interface By Zone Heating Recrystallization Toward Perovskite/Silicon Tandem Solar Cell. ECS Meeting Abstracts, 2020, MA2020-02, 1848-1848.	0.0	0
5	Estimation of Surface Coverages on H2/H2o 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
6	Techno-economic analysis on renewable energy via hydrogen, views from macro and micro scopes.. Energy Procedia, 2019, 158, 1949-1954.	1.8	1
7	Volumetric Discharge Capacity 1 A h cm^{â€“3} Realized by Sulfur in Carbon Nanotube Sponge Cathodes. Journal of Physical Chemistry C, 2019, 123, 3951-3958.	3.1	13
8	Direct formation of continuous multilayer graphene films with controllable thickness on dielectric substrates. Thin Solid Films, 2019, 675, 136-142.	1.8	5
9	A region-specific analysis of technology implementation of hydrogen energy in Japan. International Journal of Hydrogen Energy, 2019, 44, 19434-19451.	7.1	11
10	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
11	Millimeter-tall carbon nanotube arrays grown on aluminum substrates. Carbon, 2018, 130, 834-842.	10.3	32
12	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
13	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
14	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
15	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
16	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
17	Lithium ion batteries made of electrodes with 99Âwt% active materials and 1Âwt% carbon nanotubes without binder or metal foils. Journal of Power Sources, 2016, 321, 155-162.	7.8	33
18	50â€“100 Î¼m-thick pseudocapacitive electrodes of MnO₂ nanoparticles uniformly electrodeposited in carbon nanotube papers. RSC Advances, 2016, 6, 41496-41505.	3.6	14

#	Article	IF	Citations
19	Rapid vapour deposition and in situ melt crystallization for 1 min fabrication of 10 Î¼m-thick crystalline silicon films with a lateral grain size of over 100 Î¼m. CrystEngComm, 2016, 18, 3404-3410.	2.6	6
20	Carbon nanotubeâ€“silicon heterojunction solar cells with surface-textured Si and solution-processed carbon nanotube films. RSC Advances, 2016, 6, 93575-93581.	3.6	22
21	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
22	Overcoming the qualityâ€“quantity tradeoff in dispersion and printing of carbon nanotubes by a repetitive dispersionâ€“extraction process. Carbon, 2015, 91, 20-29.	10.3	25
23	One-minute deposition of micrometre-thick porous Siâ€“Cu anodes with compositional gradients on Cu current collectors for lithium secondary batteries. Journal of Power Sources, 2015, 286, 540-550.	7.8	11
24	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
25	Direct synthesis of few- and multi-layer graphene films on dielectric substrates by â€œetching-precipitationâ€• method. Carbon, 2015, 82, 254-263.	10.3	31
26	Carbon nanotube 3D current collectors for lightweight, high performance and low cost supercapacitor electrodes. RSC Advances, 2014, 4, 8230.	3.6	38
27	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
28	Methane-Assisted Chemical Vapor Deposition Yielding Millimeter-Tall Single-Wall Carbon Nanotubes of Smaller Diameter. ACS Nano, 2013, 7, 6719-6728.	14.6	26
29	Fluidized-bed synthesis of sub-millimeter-long single walled carbon nanotube arrays. Carbon, 2012, 50, 1538-1545.	10.3	38
30	Millimeter-Tall Single-Walled Carbon Nanotubes Rapidly Grown with and without Water. ACS Nano, 2011, 5, 975-984.	14.6	118
31	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
32	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
33	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
34	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
35	Diameter Increase in Millimeter-Tall Vertically Aligned Single-Walled Carbon Nanotubes during Growth. Applied Physics Express, 2010, 3, 045103.	2.4	35
36	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

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37	Millimeter-Thick Single-Walled Carbon Nanotube Forests: Hidden Role of Catalyst Support. Japanese Journal of Applied Physics, 2007, 46, L399-L401.	1.5	194