# Hisashi Sugime

List of Publications by Year
in descending order



67
papers

1,760
citations

236925
25
h-index

289244
40
g-index

69
all docs

69
docs citations

69
times ranked

1996
citing authors

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Fast and stable hydrogen storage in the porous composite of MgH2 with Nb2O5 catalyst and carbon nanotube. Journal of Alloys and Compounds, 2022, 893, 162206. | 5.5 | 32 |
| 2 | Systematic investigation of anode catalysts for liquid ammonia electrolysis. Journal of Catalysis, 2022, 406, 222-230. | 6.2 | 5 |
| 3 | Noble Metalâ€Free Inorganic Photocatalyst Consisting of Antimonyâ€Doped Tin Oxide Nanorod and Titanium oxide for Twoâ€Electron Oxygen Reduction Reaction. ChemPhysChem, 2022, 23, . | 2.1 | 2 |
| 4 | Surface amorphized nickel hydroxy sulphide for efficient hydrogen evolution reaction in alkaline medium. Chemical Engineering Journal, 2021, 408, 127275. | 12.7 | 64 |
| 5 | Performance enhancement of carbon nanotube/silicon solar cell by solution processable MoO. Applied Surface Science, 2021, 542, 148682. | 6.1 | 11 |
| 6 | Ultra-long carbon nanotube forest via in situ supplements of iron and aluminum vapor sources. Carbon, 2021, 172, 772-780. | 10.3 | 36 |
| 7 | Pushing the Limits of Rapid Anodic Growth of CuO/Cu(OH)<sub>2</sub>Nanoneedles on Cu for the Methanol Oxidation Reaction: Anodization pH Is the Game Changer. ACS Applied Energy Materials, 2021, 4, 899-912. | 5.1 | 26 |
| 8 | High-performance solution-based silicon heterojunction solar cells using carbon nanotube with polymeric acid doping. Carbon, 2021, 175, 519-524. | 10.3 | 7 |
| 9 | Fluidized-bed production of 0.3Âmm-long single-wall carbon nanotubes at 28% carbon yield with 0.1 mass% catalyst impurities using ethylene and carbon dioxide. Carbon, 2021, 182, 23-31. | 10.3 | 8 |
| 10 | Numerical simulation of heat supply and hydrogen desorption by hydrogen flow to porous MgH2 sheet. Chemical Engineering Journal, 2021, 421, 129648. | 12.7 | 4 |
| 11 | Carbon nanotube/silicon heterojunction solar cell with an active area of 4Âcm2 realized using a multifunctional molybdenum oxide layer. Carbon, 2021, 185, 215-223. | 10.3 | 7 |
| 12 | Enhanced CO2-assisted growth of single-wall carbon nanotube arrays using Fe/AlO catalyst annealed without CO2. Carbon, 2021, 185, 264-271. | 10.3 | 7 |
| 13 | Thermocatalytic Activity of Gold Truncated Nanopyramids on Strontium Titanate Nanocube. Chemistry Letters, 2021, 50, 1997-2000. | 1.3 | 3 |
| 14 | Why shouldnâ€™t double-layer capacitance (Cdl) be always trusted to justify Faradaic electrocatalytic activity differences?. Journal of Electroanalytical Chemistry, 2021, 903, 115842. | 3.8 | 42 |
| 15 | Switching of Electron Transport Direction from the Long Axis to Short Axis in a Radial SnO<sub>2</sub>(Head)â€“Rutile TiO<sub>2</sub> Nanorod(Tail) Heteromesocrystal Photocatalyst. Journal of Physical Chemistry Letters, 2021, 12, 11717-11722. | 4.6 | 4 |
| 16 | Boosting the oxygen evolution activity of copper foam containing trace Ni by intentionally supplementing Fe and forming nanowires in anodization. Electrochimica Acta, 2020, 364, 137170. | 5.2 | 16 |
| 17 | Chemical Leaching of Inactive Cr and Subsequent Electrochemical Resurfacing of Catalytically Active Sites in Stainless Steel for High-Rate Alkaline Hydrogen Evolution Reaction. ACS Applied Energy Materials, 2020, 3, 12596-12606. | 5.1 | 21 |
| 18 | Ultrafast Growth of a Cu(OH)<sub>2</sub>â€“CuO Nanoneedle Array on Cu Foil for Methanol Oxidation Electrocatalysis. ACS Applied Materials & Interfaces, 2020, 12, 27327-27338. | 8.0 | 95 |

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|---|---|---|---|
| 19 | Facile catalyst deposition using mists for fluidized-bed production of sub-millimeter-long carbon nanotubes. Carbon, 2020, 167, 256-263. | 10.3 | 12 |
| 20 | Electrolysis of ammonia in aqueous solution by platinum nanoparticles supported on carbon nanotube film electrode. Electrochimica Acta, 2020, 341, 136027. | 5.2 | 25 |
| 21 | Dispersing and doping carbon nanotubes by poly(p-styrene-sulfonic acid) for high-performance and stable transparent conductive films. Carbon, 2020, 164, 150-156. | 10.3 | 18 |
| 22 | Achieving Increased Electrochemical Accessibility and Lowered Oxygen Evolution Reaction Activation Energy for Co<sup>2+</sup> Sites with a Simple Anion Preoxidation. Journal of Physical Chemistry C, 2020, 124, 9673-9684. | 3.1 | 33 |
| 23 | Enhancing the photovoltaic performance of hybrid heterojunction solar cells by passivation of silicon surface via a simple 1-min annealing process. Scientific Reports, 2019, 9, 12051. | 3.3 | 19 |
| 24 | Gd-Enhanced Growth of Multi-Millimeter-Tall Forests of Single-Wall Carbon Nanotubes. ACS Nano, 2019, 13, 13208-13216. | 14.6 | 15 |
| 25 | 1.5 Minute-synthesis of continuous graphene films by chemical vapor deposition on Cu foils rolled in three dimensions. Chemical Engineering Science, 2019, 201, 319-324. | 3.8 | 10 |
| 26 | Direct formation of continuous multilayer graphene films with controllable thickness on dielectric substrates. Thin Solid Films, 2019, 675, 136-142. | 1.8 | 5 |
| 27 | Millimeter-tall carbon nanotube arrays grown on aluminum substrates. Carbon, 2018, 130, 834-842. | 10.3 | 32 |
| 28 | Carbon nanotube isolation layer enhancing in-liquid quality-factors of thin film bulk acoustic wave resonators for gravimetric sensing. Sensors and Actuators B: Chemical, 2018, 261, 398-407. | 7.8 | 10 |
| 29 | CO2-assisted growth of millimeter-tall single-wall carbon nanotube arrays and its advantage against H2O for large-scale and uniform synthesis. Carbon, 2018, 136, 143-149. | 10.3 | 32 |
| 30 | 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 |
| 31 | An interdigitated electrode with dense carbon nanotube forests on conductive supports for electrochemical biosensors. Analyst, The, 2018, 143, 3635-3642. | 3.5 | 12 |
| 32 | 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 |
| 33 | Low temperature growth of fully covered single-layer graphene using a CoCu catalyst. Nanoscale, 2017, 9, 14467-14475. | 5.6 | 11 |
| 34 | From Growth Surface to Device Interface: Preserving Metallic Fe under Monolayer Hexagonal Boron Nitride. ACS Applied Materials & Interfaces, 2017, 9, 29973-29981. | 8.0 | 16 |
| 35 | 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 |
| 36 | Stable, efficient p-type doping of graphene by nitric acid. RSC Advances, 2016, 6, 113185-113192. | 3.6 | 66 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Growth of Continuous Monolayer Graphene with Millimeter-sized Domains Using Industrially Safe Conditions. Scientific Reports, 2016, 6, 21152. | 3.3 | 48 |
| 38 | Growth of high quality, high density single-walled carbon nanotube forests on copper foils. Carbon, 2016, 98, 624-632. | 10.3 | 31 |
| 39 | Carbon nanotube forests as top electrode in electroacoustic resonators. Applied Physics Letters, 2015, 107, . | 3.3 | 7 |
| 40 | Spatial variability in large area single and few-layer CVD graphene. , 2015, , . | | 1 |
| 41 | Growth of high-density carbon nanotube forests on conductive TiSiN supports. Applied Physics Letters, 2015, 106, 083108. | 3.3 | 26 |
| 42 | Low-Temperature Growth of Carbon Nanotube Forests Consisting of Tubes with Narrow Inner Spacing Using Co/Al/Mo Catalyst on Conductive Supports. ACS Applied Materials & Interfaces, 2015, 7, 16819-16827. | 8.0 | 27 |
| 43 | Efficient Transfer Doping of Carbon Nanotube Forests by MoO<sub>3</sub>. ACS Nano, 2015, 9, 10422-10430. | 14.6 | 39 |
| 44 | Carbon nanotube growth on conductors: Influence of the support structure and catalyst thickness. Carbon, 2014, 73, 13-24. | 10.3 | 14 |
| 45 | Effect of Oxygen Plasma Alumina Treatment on Growth of Carbon Nanotube Forests. Journal of Physical Chemistry C, 2014, 118, 18683-18692. | 3.1 | 9 |
| 46 | Growth Kinetics and Growth Mechanism of Ultrahigh Mass Density Carbon Nanotube Forests on Conductive Ti/Cu Supports. ACS Applied Materials & Interfaces, 2014, 6, 15440-15447. | 8.0 | 20 |
| 47 | Co-catalytic Absorption Layers for Controlled Laser-Induced Chemical Vapor Deposition of Carbon Nanotubes. ACS Applied Materials & Interfaces, 2014, 6, 4025-4032. | 8.0 | 14 |
| 48 | Hybrids of carbon Nanotube Forests and Gold Nanoparticles for Improved Surface Plasmon Manipulation. ACS Applied Materials & Interfaces, 2014, 6, 5344-5349. | 8.0 | 11 |
| 49 | Comparison of carbon nanotube forest growth using AlSi, TiSiN, and TiN as conductive catalyst supports. Physica Status Solidi (B): Basic Research, 2014, 251, 2389-2393. | 1.5 | 9 |
| 50 | Low temperature growth of ultra-high mass density carbon nanotube forests on conductive supports. Applied Physics Letters, 2013, 103, . | 3.3 | 49 |
| 51 | Evaluation of bimetallic catalysts for the growth of carbon nanotube forests. Physica Status Solidi (B): Basic Research, 2013, 250, 2605-2610. | 1.5 | 6 |
| 52 | Fluidized-bed synthesis of sub-millimeter-long single walled carbon nanotube arrays. Carbon, 2012, 50, 1538-1545. | 10.3 | 38 |
| 53 | Cold-gas chemical vapor deposition to identify the key precursor for rapidly growing vertically-aligned single-wall and few-wall carbon nanotubes from pyrolyzed ethanol. Carbon, 2012, 50, 2953-2960. | 10.3 | 31 |
| 54 | 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 |

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|---|---|---|---|
| 55 | Tailoring the Morphology of Carbon Nanotube Assemblies Using Microgradients in the Catalyst Thickness. Japanese Journal of Applied Physics, 2011, 50, 095101. | 1.5 | 0 |
| 56 | Tailoring the Morphology of Carbon Nanotube Assemblies Using Microgradients in the Catalyst Thickness. Japanese Journal of Applied Physics, 2011, 50, 095101. | 1.5 | 0 |
| 57 | Millimeter-tall single-walled carbon nanotube forests grown from ethanol. Carbon, 2010, 48, 2203-2211. | 10.3 | 53 |
| 58 | 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 |
| 59 | Efficient field emission from triode-type 1D arrays of carbon nanotubes. Nanotechnology, 2009, 20, 475707. | 2.6 | 7 |
| 60 | Multiple â€œoptimumâ€•conditions for Coâ€“Mo catalyzed growth of vertically aligned single-walled carbon nanotube forests. Carbon, 2009, 47, 234-241. | 10.3 | 96 |
| 61 | Combinatorial Surface-Enhanced Raman Spectroscopy and Spectroscopic Ellipsometry of Silver Island Films. Journal of Physical Chemistry C, 2009, 113, 4820-4828. | 3.1 | 42 |
| 62 | 12.3: 1â€Second Implementation of CNTâ€Emitter Arrays on Glasses for BLUs. Digest of Technical Papers SID International Symposium, 2009, 40, 139-141. | 0.3 | 1 |
| 63 | Combinatorial Evaluation for Field Emission Properties of Carbon Nanotubes. Journal of Physical Chemistry C, 2008, 112, 17974-17982. | 3.1 | 11 |
| 64 | Field Emission Properties of Single-Walled Carbon Nanotubes with a Variety of Emitter Morphologies. Japanese Journal of Applied Physics, 2008, 47, 4780-4787. | 1.5 | 18 |
| 65 | 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 |
| 66 | Millimeter-Thick Single-Walled Carbon Nanotube Forests: Hidden Role of Catalyst Support. Japanese Journal of Applied Physics, 2007, 46, L399-L401. | 1.5 | 194 |
| 67 | A simple combinatorial method to discover Coâ€“Mo binary catalysts that grow vertically aligned single-walled carbon nanotubes. Carbon, 2006, 44, 1414-1419. | 10.3 | 86 |