

# Hisashi Sugime

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/7298985/hisashi-sugime-publications-by-citations.pdf>

**Version:** 2024-04-23

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

65  
papers

1,295  
citations

20  
h-index

34  
g-index

69  
ext. papers

1,511  
ext. citations

6.9  
avg, IF

4.97  
L-index

#	Paper	IF	Citations
65	Millimeter-Thick Single-Walled Carbon Nanotube Forests: Hidden Role of Catalyst Support. <i>Japanese Journal of Applied Physics</i> , <b>2007</b> , 46, L399-L401	1.4	180
64	Multiple Optimum Conditions for Co/Mo catalyzed growth of vertically aligned single-walled carbon nanotube forests. <i>Carbon</i> , <b>2009</b> , 47, 234-241	10.4	88
63	A simple combinatorial method to discover Co/Mo binary catalysts that grow vertically aligned single-walled carbon nanotubes. <i>Carbon</i> , <b>2006</b> , 44, 1414-1419	10.4	81
62	Sub-millimeter-long carbon nanotubes repeatedly grown on and separated from ceramic beads in a single fluidized bed reactor. <i>Carbon</i> , <b>2011</b> , 49, 1972-1979	10.4	57
61	Millimeter-tall single-walled carbon nanotube forests grown from ethanol. <i>Carbon</i> , <b>2010</b> , 48, 2203-2211	10.4	51
60	Ultrafast Growth of a Cu(OH)-CuO Nanoneedle Array on Cu Foil for Methanol Oxidation Electrocatalysis. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 27327-27338	9.5	49
59	Stable, efficient p-type doping of graphene by nitric acid. <i>RSC Advances</i> , <b>2016</b> , 6, 113185-113192	3.7	49
58	Low temperature growth of ultra-high mass density carbon nanotube forests on conductive supports. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 073116	3.4	44
57	Growth of Continuous Monolayer Graphene with Millimeter-sized Domains Using Industrially Safe Conditions. <i>Scientific Reports</i> , <b>2016</b> , 6, 21152	4.9	40
56	Combinatorial Surface-Enhanced Raman Spectroscopy and Spectroscopic Ellipsometry of Silver Island Films. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 4820-4828	3.8	37
55	Growth window and possible mechanism of millimeter-thick single-walled carbon nanotube forests. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2008</b> , 8, 6123-8	1.3	37
54	Efficient Transfer Doping of Carbon Nanotube Forests by MoO <sub>3</sub> . <i>ACS Nano</i> , <b>2015</b> , 9, 10422-30	16.7	33
53	Fluidized-bed synthesis of sub-millimeter-long single walled carbon nanotube arrays. <i>Carbon</i> , <b>2012</b> , 50, 1538-1545	10.4	32
52	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. <i>Carbon</i> , <b>2012</b> , 50, 2953-2960	10.4	30
51	Growth of high quality, high density single-walled carbon nanotube forests on copper foils. <i>Carbon</i> , <b>2016</b> , 98, 624-632	10.4	25
50	Growth of high-density carbon nanotube forests on conductive TiSiN supports. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 083108	3.4	25
49	Low-Temperature Growth of Carbon Nanotube Forests Consisting of Tubes with Narrow Inner Spacing Using Co/Al/Mo Catalyst on Conductive Supports. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 16819-27	9.5	23

48	Millimeter-tall carbon nanotube arrays grown on aluminum substrates. <i>Carbon</i> , <b>2018</b> , 130, 834-842	10.4	22
47	CO <sub>2</sub> -assisted growth of millimeter-tall single-wall carbon nanotube arrays and its advantage against H <sub>2</sub> O for large-scale and uniform synthesis. <i>Carbon</i> , <b>2018</b> , 136, 143-149	10.4	22
46	Achieving Increased Electrochemical Accessibility and Lowered Oxygen Evolution Reaction Activation Energy for Co <sup>2+</sup> Sites with a Simple Anion Preoxidation. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 9673-9684	3.8	21
45	Surface amorphized nickel hydroxy sulphide for efficient hydrogen evolution reaction in alkaline medium. <i>Chemical Engineering Journal</i> , <b>2021</b> , 408, 127275	14.7	20
44	Flame-assisted chemical vapor deposition for continuous gas-phase synthesis of 1-nm-diameter single-wall carbon nanotubes. <i>Carbon</i> , <b>2018</b> , 138, 1-7	10.4	19
43	Growth kinetics and growth mechanism of ultrahigh mass density carbon nanotube forests on conductive Ti/Cu supports. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 15440-7	9.5	19
42	A Simple Combinatorial Method Aiding Research on Single-Walled Carbon Nanotube Growth on Substrates. <i>Japanese Journal of Applied Physics</i> , <b>2010</b> , 49, 02BA02	1.4	19
41	Field Emission Properties of Single-Walled Carbon Nanotubes with a Variety of Emitter Morphologies. <i>Japanese Journal of Applied Physics</i> , <b>2008</b> , 47, 4780-4787	1.4	17
40	Ultra-long carbon nanotube forest via in situ supplements of iron and aluminum vapor sources. <i>Carbon</i> , <b>2021</b> , 172, 772-780	10.4	15
39	Electrolysis of ammonia in aqueous solution by platinum nanoparticles supported on carbon nanotube film electrode. <i>Electrochimica Acta</i> , <b>2020</b> , 341, 136027	6.7	13
38	Carbon nanotube growth on conductors: Influence of the support structure and catalyst thickness. <i>Carbon</i> , <b>2014</b> , 73, 13-24	10.4	13
37	From Growth Surface to Device Interface: Preserving Metallic Fe under Monolayer Hexagonal Boron Nitride. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 29973-29981	9.5	13
36	Co-catalytic absorption layers for controlled laser-induced chemical vapor deposition of carbon nanotubes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 4025-32	9.5	12
35	Enhancing the photovoltaic performance of hybrid heterojunction solar cells by passivation of silicon surface via a simple 1-min annealing process. <i>Scientific Reports</i> , <b>2019</b> , 9, 12051	4.9	11
34	Low temperature growth of fully covered single-layer graphene using a CoCu catalyst. <i>Nanoscale</i> , <b>2017</b> , 9, 14467-14475	7.7	11
33	Chemical Leaching of Inactive Cr and Subsequent Electrochemical Resurfacing of Catalytically Active Sites in Stainless Steel for High-Rate Alkaline Hydrogen Evolution Reaction. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 12596-12606	6.1	10
32	Dispersing and doping carbon nanotubes by poly(p-styrene-sulfonic acid) for high-performance and stable transparent conductive films. <i>Carbon</i> , <b>2020</b> , 164, 150-156	10.4	10
31	Carbon nanotube isolation layer enhancing in-liquid quality-factors of thin film bulk acoustic wave resonators for gravimetric sensing. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 261, 398-407	8.5	10

30	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. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 899-912	6.1	10
29	Hybrids of carbon nanotube forests and gold nanoparticles for improved surface plasmon manipulation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 5344-9	9.5	9
28	Combinatorial Evaluation for Field Emission Properties of Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 17974-17982	3.8	9
27	Boosting the oxygen evolution activity of copper foam containing trace Ni by intentionally supplementing Fe and forming nanowires in anodization. <i>Electrochimica Acta</i> , <b>2020</b> , 364, 137170	6.7	9
26	An interdigitated electrode with dense carbon nanotube forests on conductive supports for electrochemical biosensors. <i>Analyst, The</i> , <b>2018</b> , 143, 3635-3642	5	8
25	Effect of Oxygen Plasma Alumina Treatment on Growth of Carbon Nanotube Forests. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 18683-18692	3.8	8
24	Why Shouldn't Double-Layer Capacitance (C <sub>dl</sub> ) Be Always Trusted to Justify Faradaic Electrocatalytic Activity Differences?. <i>Journal of Electroanalytical Chemistry</i> , <b>2021</b> , 115842	4.1	8
23	Catalyst nucleation and carbon nanotube growth from flame-synthesized Co-Al-O nanopowders at ten-second time scale. <i>Carbon</i> , <b>2017</b> , 114, 31-38	10.4	7
22	1.5 Minute-synthesis of continuous graphene films by chemical vapor deposition on Cu foils rolled in three dimensions. <i>Chemical Engineering Science</i> , <b>2019</b> , 201, 319-324	4.4	7
21	Facile catalyst deposition using mists for fluidized-bed production of sub-millimeter-long carbon nanotubes. <i>Carbon</i> , <b>2020</b> , 167, 256-263	10.4	7
20	Gd-Enhanced Growth of Multi-Millimeter-Tall Forests of Single-Wall Carbon Nanotubes. <i>ACS Nano</i> , <b>2019</b> , 13, 13208-13216	16.7	7
19	Efficient field emission from triode-type 1D arrays of carbon nanotubes. <i>Nanotechnology</i> , <b>2009</b> , 20, 4757-4767	10.7	7
18	Comparison of carbon nanotube forest growth using AlSi, TiSiN, and TiN as conductive catalyst supports. <i>Physica Status Solidi (B): Basic Research</i> , <b>2014</b> , 251, 2389-2393	1.3	6
17	Carbon nanotube forests as top electrode in electroacoustic resonators. <i>Applied Physics Letters</i> , <b>2015</b> , 107, 133106	3.4	6
16	Evaluation of bimetallic catalysts for the growth of carbon nanotube forests. <i>Physica Status Solidi (B): Basic Research</i> , <b>2013</b> , 250, 2605-2610	1.3	5
15	Fast and stable hydrogen storage in the porous composite of MgH <sub>2</sub> with Nb <sub>2</sub> O <sub>5</sub> catalyst and carbon nanotube. <i>Journal of Alloys and Compounds</i> , <b>2022</b> , 893, 162206	5.7	5
14	Performance enhancement of carbon nanotube/silicon solar cell by solution processable MoO <sub>x</sub> . <i>Applied Surface Science</i> , <b>2021</b> , 542, 148682	6.7	5
13	Ten-Second Epitaxy of Cu on Repeatedly Used Sapphire for Practical Production of High-Quality Graphene. <i>ACS Omega</i> , <b>2017</b> , 2, 3354-3362	3.9	2

12	Fluidized-bed production of 0.3 $\mu$ m-long single-wall carbon nanotubes at 28% carbon yield with 0.1 mass% catalyst impurities using ethylene and carbon dioxide. <i>Carbon</i> , <b>2021</b> , 182, 23-31	10.4	2
11	Numerical simulation of heat supply and hydrogen desorption by hydrogen flow to porous MgH <sub>2</sub> sheet. <i>Chemical Engineering Journal</i> , <b>2021</b> , 421, 129648	14.7	2
10	Spatial variability in large area single and few-layer CVD graphene <b>2015</b> ,		1
9	12.3: 1-Second Implementation of CNT-Emitter Arrays on Glasses for BLUs. <i>Digest of Technical Papers SID International Symposium</i> , <b>2009</b> , 40, 139	0.5	1
8	High-performance solution-based silicon heterojunction solar cells using carbon nanotube with polymeric acid doping. <i>Carbon</i> , <b>2021</b> , 175, 519-524	10.4	1
7	Direct formation of continuous multilayer graphene films with controllable thickness on dielectric substrates. <i>Thin Solid Films</i> , <b>2019</b> , 675, 136-142	2.2	1
6	Carbon nanotube/silicon heterojunction solar cell with an active area of 4 $\mu$ m <sup>2</sup> realized using a multifunctional molybdenum oxide layer. <i>Carbon</i> , <b>2021</b> , 185, 215-223	10.4	1
5	Enhanced CO <sub>2</sub> -assisted growth of single-wall carbon nanotube arrays using Fe/AlO catalyst annealed without CO <sub>2</sub> . <i>Carbon</i> , <b>2021</b> , 185, 264-271	10.4	1
4	Systematic investigation of anode catalysts for liquid ammonia electrolysis. <i>Journal of Catalysis</i> , <b>2022</b> , 406, 222-230	7.3	0
3	Switching of Electron Transport Direction from the Long Axis to Short Axis in a Radial SnO(Head)-Rutile TiO Nanorod(Tail) Heteromesocrystal Photocatalyst. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 12, 11717-11722	6.4	0
2	Tailoring the Morphology of Carbon Nanotube Assemblies Using Microgradients in the Catalyst Thickness. <i>Japanese Journal of Applied Physics</i> , <b>2011</b> , 50, 095101	1.4	
1	Tailoring the Morphology of Carbon Nanotube Assemblies Using Microgradients in the Catalyst Thickness. <i>Japanese Journal of Applied Physics</i> , <b>2011</b> , 50, 095101	1.4	