

Hisashi Sugime

List of Publications by Year in Descending Order

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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	Systematic investigation of anode catalysts for liquid ammonia electrolysis. <i>Journal of Catalysis</i> , 2022 , 406, 222-230	7.3	0
64	Fast and stable hydrogen storage in the porous composite of MgH ₂ with Nb ₂ O ₅ catalyst and carbon nanotube. <i>Journal of Alloys and Compounds</i> , 2022 , 893, 162206	5.7	5
63	Why Shouldn't Double-Layer Capacitance (C _{dl}) Be Always Trusted to Justify Faradaic Electrocatalytic Activity Differences?. <i>Journal of Electroanalytical Chemistry</i> , 2021 , 115842	4.1	8
62	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> , 2021 , 12, 11717-11722	6.4	0
61	High-performance solution-based silicon heterojunction solar cells using carbon nanotube with polymeric acid doping. <i>Carbon</i> , 2021 , 175, 519-524	10.4	1
60	Surface amorphized nickel hydroxy sulphide for efficient hydrogen evolution reaction in alkaline medium. <i>Chemical Engineering Journal</i> , 2021 , 408, 127275	14.7	20
59	Performance enhancement of carbon nanotube/silicon solar cell by solution processable MoO _x . <i>Applied Surface Science</i> , 2021 , 542, 148682	6.7	5
58	Ultra-long carbon nanotube forest via in situ supplements of iron and aluminum vapor sources. <i>Carbon</i> , 2021 , 172, 772-780	10.4	15
57	Pushing the Limits of Rapid Anodic Growth of CuO/Cu(OH) ₂ Nanoneedles on Cu for the Methanol Oxidation Reaction: Anodization pH Is the Game Changer. <i>ACS Applied Energy Materials</i> , 2021 , 4, 899-912	6.1	10
56	Fluidized-bed production of 0.3 μm-long single-wall carbon nanotubes at 28% carbon yield with 0.1 mass% catalyst impurities using ethylene and carbon dioxide. <i>Carbon</i> , 2021 , 182, 23-31	10.4	2
55	Numerical simulation of heat supply and hydrogen desorption by hydrogen flow to porous MgH ₂ sheet. <i>Chemical Engineering Journal</i> , 2021 , 421, 129648	14.7	2
54	Carbon nanotube/silicon heterojunction solar cell with an active area of 4 cm ² realized using a multifunctional molybdenum oxide layer. <i>Carbon</i> , 2021 , 185, 215-223	10.4	1
53	Enhanced CO ₂ -assisted growth of single-wall carbon nanotube arrays using Fe/AlO catalyst annealed without CO ₂ . <i>Carbon</i> , 2021 , 185, 264-271	10.4	1
52	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> , 2020 , 3, 12596-12606	6.1	10
51	Ultrafast Growth of a Cu(OH)-CuO Nanoneedle Array on Cu Foil for Methanol Oxidation Electrocatalysis. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 27327-27338	9.5	49
50	Facile catalyst deposition using mists for fluidized-bed production of sub-millimeter-long carbon nanotubes. <i>Carbon</i> , 2020 , 167, 256-263	10.4	7
49	Electrolysis of ammonia in aqueous solution by platinum nanoparticles supported on carbon nanotube film electrode. <i>Electrochimica Acta</i> , 2020 , 341, 136027	6.7	13

48	Dispersing and doping carbon nanotubes by poly(p-styrene-sulfonic acid) for high-performance and stable transparent conductive films. <i>Carbon</i> , 2020 , 164, 150-156	10.4	10
47	Achieving Increased Electrochemical Accessibility and Lowered Oxygen Evolution Reaction Activation Energy for Co ²⁺ Sites with a Simple Anion Preoxidation. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 9673-9684	3.8	21
46	Boosting the oxygen evolution activity of copper foam containing trace Ni by intentionally supplementing Fe and forming nanowires in anodization. <i>Electrochimica Acta</i> , 2020 , 364, 137170	6.7	9
45	1.5 Minute-synthesis of continuous graphene films by chemical vapor deposition on Cu foils rolled in three dimensions. <i>Chemical Engineering Science</i> , 2019 , 201, 319-324	4.4	7
44	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> , 2019 , 9, 12051	4.9	11
43	Gd-Enhanced Growth of Multi-Millimeter-Tall Forests of Single-Wall Carbon Nanotubes. <i>ACS Nano</i> , 2019 , 13, 13208-13216	16.7	7
42	Direct formation of continuous multilayer graphene films with controllable thickness on dielectric substrates. <i>Thin Solid Films</i> , 2019 , 675, 136-142	2.2	1
41	Millimeter-tall carbon nanotube arrays grown on aluminum substrates. <i>Carbon</i> , 2018 , 130, 834-842	10.4	22
40	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> , 2018 , 261, 398-407	8.5	10
39	Flame-assisted chemical vapor deposition for continuous gas-phase synthesis of 1-nm-diameter single-wall carbon nanotubes. <i>Carbon</i> , 2018 , 138, 1-7	10.4	19
38	An interdigitated electrode with dense carbon nanotube forests on conductive supports for electrochemical biosensors. <i>Analyst, The</i> , 2018 , 143, 3635-3642	5	8
37	CO ₂ -assisted growth of millimeter-tall single-wall carbon nanotube arrays and its advantage against H ₂ O for large-scale and uniform synthesis. <i>Carbon</i> , 2018 , 136, 143-149	10.4	22
36	Catalyst nucleation and carbon nanotube growth from flame-synthesized Co-Al-O nanopowders at ten-second time scale. <i>Carbon</i> , 2017 , 114, 31-38	10.4	7
35	Low temperature growth of fully covered single-layer graphene using a CoCu catalyst. <i>Nanoscale</i> , 2017 , 9, 14467-14475	7.7	11
34	From Growth Surface to Device Interface: Preserving Metallic Fe under Monolayer Hexagonal Boron Nitride. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 29973-29981	9.5	13
33	Ten-Second Epitaxy of Cu on Repeatedly Used Sapphire for Practical Production of High-Quality Graphene. <i>ACS Omega</i> , 2017 , 2, 3354-3362	3.9	2
32	Stable, efficient p-type doping of graphene by nitric acid. <i>RSC Advances</i> , 2016 , 6, 113185-113192	3.7	49
31	Growth of Continuous Monolayer Graphene with Millimeter-sized Domains Using Industrially Safe Conditions. <i>Scientific Reports</i> , 2016 , 6, 21152	4.9	40

30	Growth of high quality, high density single-walled carbon nanotube forests on copper foils. <i>Carbon</i> , 2016 , 98, 624-632	10.4	25
29	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 & Interfaces</i> , 2015 , 7, 16819-27	9.5	23
28	Efficient Transfer Doping of Carbon Nanotube Forests by MoO ₃ . <i>ACS Nano</i> , 2015 , 9, 10422-30	16.7	33
27	Carbon nanotube forests as top electrode in electroacoustic resonators. <i>Applied Physics Letters</i> , 2015 , 107, 133106	3.4	6
26	Spatial variability in large area single and few-layer CVD graphene 2015 ,		1
25	Growth of high-density carbon nanotube forests on conductive TiSiN supports. <i>Applied Physics Letters</i> , 2015 , 106, 083108	3.4	25
24	Carbon nanotube growth on conductors: Influence of the support structure and catalyst thickness. <i>Carbon</i> , 2014 , 73, 13-24	10.4	13
23	Effect of Oxygen Plasma Alumina Treatment on Growth of Carbon Nanotube Forests. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 18683-18692	3.8	8
22	Growth kinetics and growth mechanism of ultrahigh mass density carbon nanotube forests on conductive Ti/Cu supports. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 15440-7	9.5	19
21	Co-catalytic absorption layers for controlled laser-induced chemical vapor deposition of carbon nanotubes. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 4025-32	9.5	12
20	Hybrids of carbon nanotube forests and gold nanoparticles for improved surface plasmon manipulation. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 5344-9	9.5	9
19	Comparison of carbon nanotube forest growth using AlSi, TiSiN, and TiN as conductive catalyst supports. <i>Physica Status Solidi (B): Basic Research</i> , 2014 , 251, 2389-2393	1.3	6
18	Low temperature growth of ultra-high mass density carbon nanotube forests on conductive supports. <i>Applied Physics Letters</i> , 2013 , 103, 073116	3.4	44
17	Evaluation of bimetallic catalysts for the growth of carbon nanotube forests. <i>Physica Status Solidi (B): Basic Research</i> , 2013 , 250, 2605-2610	1.3	5
16	Fluidized-bed synthesis of sub-millimeter-long single walled carbon nanotube arrays. <i>Carbon</i> , 2012 , 50, 1538-1545	10.4	32
15	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> , 2012 , 50, 2953-2960	10.4	30
14	Sub-millimeter-long carbon nanotubes repeatedly grown on and separated from ceramic beads in a single fluidized bed reactor. <i>Carbon</i> , 2011 , 49, 1972-1979	10.4	57
13	Tailoring the Morphology of Carbon Nanotube Assemblies Using Microgradients in the Catalyst Thickness. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 095101	1.4	

12	Tailoring the Morphology of Carbon Nanotube Assemblies Using Microgradients in the Catalyst Thickness. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 095101	1.4	
11	A Simple Combinatorial Method Aiding Research on Single-Walled Carbon Nanotube Growth on Substrates. <i>Japanese Journal of Applied Physics</i> , 2010 , 49, 02BA02	1.4	19
10	Millimeter-tall single-walled carbon nanotube forests grown from ethanol. <i>Carbon</i> , 2010 , 48, 2203-2211	10.4	51
9	Efficient field emission from triode-type 1D arrays of carbon nanotubes. <i>Nanotechnology</i> , 2009 , 20, 475707	3.7	7
8	Multiple Optimum Conditions for CoMo catalyzed growth of vertically aligned single-walled carbon nanotube forests. <i>Carbon</i> , 2009 , 47, 234-241	10.4	88
7	Combinatorial Surface-Enhanced Raman Spectroscopy and Spectroscopic Ellipsometry of Silver Island Films. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 4820-4828	3.8	37
6	12.3: 1-Second Implementation of CNT-Emitter Arrays on Glasses for BLUs. <i>Digest of Technical Papers SID International Symposium</i> , 2009 , 40, 139	0.5	1
5	Combinatorial Evaluation for Field Emission Properties of Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 17974-17982	3.8	9
4	Field Emission Properties of Single-Walled Carbon Nanotubes with a Variety of Emitter Morphologies. <i>Japanese Journal of Applied Physics</i> , 2008 , 47, 4780-4787	1.4	17
3	Growth window and possible mechanism of millimeter-thick single-walled carbon nanotube forests. <i>Journal of Nanoscience and Nanotechnology</i> , 2008 , 8, 6123-8	1.3	37
2	Millimeter-Thick Single-Walled Carbon Nanotube Forests: Hidden Role of Catalyst Support. <i>Japanese Journal of Applied Physics</i> , 2007 , 46, L399-L401	1.4	180
1	A simple combinatorial method to discover CoMo binary catalysts that grow vertically aligned single-walled carbon nanotubes. <i>Carbon</i> , 2006 , 44, 1414-1419	10.4	81