

Takahiro Maruyama

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.

40
papers

887
citations

16
h-index

28
g-index

40
ext. papers

966
ext. citations

3.9
avg, IF

4.15
L-index

#	Paper	IF	Citations
40	Vertically aligned growth of small-diameter single-walled carbon nanotubes by alcohol catalytic chemical vapor deposition with Ir catalyst. <i>Applied Surface Science</i> , 2020 , 509, 145340	6.7	16
39	Enhanced adsorption and catalytic degradation of organic dyes by nanometer iron oxide anchored to single-wall carbon nanotubes. <i>Applied Surface Science</i> , 2019 , 488, 813-826	6.7	33
38	Low-temperature synthesis of single-walled carbon nanotubes with Co catalysts via alcohol catalytic chemical vapor deposition under high vacuum. <i>Materials Today Communications</i> , 2019 , 19, 51-55	2.5	5
37	Current status of single-walled carbon nanotube synthesis from metal catalysts by chemical vapor deposition. <i>Materials Express</i> , 2018 , 8, 1-20	1.3	14
36	Low temperature growth of single-walled carbon nanotubes from Rh catalysts. <i>Carbon</i> , 2017 , 116, 128-132	2.4	17
35	Unveiling the Evolutions of Nanotube Diameter Distribution during the Growth of Single-Walled Carbon Nanotubes. <i>ACS Nano</i> , 2017 , 11, 3081-3088	16.7	21
34	Low temperature growth of single-walled carbon nanotubes from Ru catalysts by alcohol catalytic chemical vapor deposition. <i>Diamond and Related Materials</i> , 2017 , 77, 97-101	3.5	12
33	Single-walled carbon nanotube synthesis using Pt catalysts under low ethanol pressure via cold-wall chemical vapor deposition in high vacuum. <i>Carbon</i> , 2016 , 96, 6-13	10.4	49
32	Ultrafast and Reversible Gas-Sensing Properties of ZnO Nanowire Arrays Grown by Hydrothermal Technique. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 3019-3025	3.8	90
31	Single-walled carbon nanotube growth on SiO ₂ /Si using Rh catalysts by alcohol gas source chemical vapor deposition. <i>Diamond and Related Materials</i> , 2016 , 63, 159-164	3.5	12
30	Polyaniline/carbon nanotube/CdS quantum dot composites with enhanced optical and electrical properties. <i>Applied Surface Science</i> , 2016 , 364, 176-180	6.7	11
29	Direct growth of multilayer graphene by precipitation using W capping layer. <i>Japanese Journal of Applied Physics</i> , 2016 , 55, 100302	1.4	14
28	Selective growth of (001) GaAs using a patterned graphene mask. <i>Journal of Crystal Growth</i> , 2014 , 401, 563-566	1.6	4
27	Single-walled carbon nanotube synthesis on SiO ₂ /Si substrates at very low pressures by the alcohol gas source method using a Pt catalyst. <i>Diamond and Related Materials</i> , 2012 , 26, 78-82	3.5	19
26	Single-Walled Carbon Nanotube Growth in High Vacuum Using Pt Catalyst in Alcohol Gas Source Method. <i>Materials Express</i> , 2011 , 1, 267-272	1.3	21
25	Initial stage of carbon nanotube formation process by surface decomposition of SiC: STM and NEXAFS study. <i>Diamond and Related Materials</i> , 2011 , 20, 1325-1328	3.5	8
24	Low angle incidence microchannel epitaxy of GaN grown by ammonia-based metalorganic molecular beam epitaxy. <i>Journal of Crystal Growth</i> , 2011 , 318, 446-449	1.6	6

23	Temperature dependence of selective growth of GaN by ammonia-based metal-organic molecular beam epitaxy. <i>Journal of Crystal Growth</i> , 2011 , 318, 450-453	1.6	14
22	SWNT growth on Al ₂ O ₃ /Co/Al ₂ O ₃ multilayer catalyst using alcohol gas source method in high vacuum. <i>Journal of Crystal Growth</i> , 2011 , 318, 1101-1104	1.6	3
21	Effect of mask material on selective growth of GaN by RF-MBE. <i>Journal of Crystal Growth</i> , 2011 , 324, 88-92	1.6	8
20	Effect of buffer thickness on single-walled carbon nanotube growth using aluminum oxide buffer layer with alcohol gas source method. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 3929-33	1.3	7
19	Low-temperature synthesis of single-walled carbon nanotubes by alcohol gas source growth in high vacuum. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 4095-101	1.3	15
18	Facile Decoration of Platinum Nanoparticles on Carbon-Nitride Nanotubes via Microwave-Assisted Chemical Reduction and Their Optimization for Field-Emission Application. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 5107-5112	3.8	25
17	Controllable growth of highly N-doped carbon nanotubes from imidazole: a structural, spectroscopic and field emission study. <i>Journal of Materials Chemistry</i> , 2010 , 20, 4128		49
16	Nitrogen-mediated wet-chemical formation of carbon nitride/ZnO heterojunctions for enhanced field emission. <i>Langmuir</i> , 2010 , 26, 5527-33	4	30
15	Effect of annealing in hydrogen atmosphere on carbon nanocap formation in surface decomposition of 6H-SiC(000-1). <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 4054-9	1.3	5
14	Tailoring the field emission property of nitrogen-doped carbon nanotubes by controlling the graphitic/pyridinic substitution. <i>Carbon</i> , 2010 , 48, 191-200	10.4	113
13	Synthesis of double-walled carbon nanotube films and their field emission properties. <i>Carbon</i> , 2010 , 48, 2882-2889	10.4	24
12	Micro-structural, electron-spectroscopic and field-emission studies of carbon nitride nanotubes grown from cage-like and linear carbon sources. <i>Carbon</i> , 2009 , 47, 1565-1575	10.4	93
11	Direct Growth of Single-Walled Carbon Nanotube Films and Their Optoelectric Properties. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 12079-12084	3.8	5
10	Effect of crystallographic orientation of microchannel on low-angle incidence microchannel epitaxy on (001) GaAs substrate. <i>Journal of Crystal Growth</i> , 2009 , 311, 1778-1782	1.6	7
9	Low temperature growth of carbon nanotubes on Si substrates in high vacuum. <i>Diamond and Related Materials</i> , 2008 , 17, 589-593	3.5	35
8	Optimization of initial growth in low-angle incidence microchannel epitaxy of GaAs on (001) GaAs substrates. <i>Journal of Crystal Growth</i> , 2008 , 310, 1571-1575	1.6	9
7	Liquid-phase epitaxy of GaAs by temperature difference method to realize wide lateral growth. <i>Journal of Crystal Growth</i> , 2008 , 310, 1642-1646	1.6	6
6	STM and XPS studies of early stages of carbon nanotube growth by surface decomposition of 6H-SiC(000-1) under various oxygen pressures. <i>Diamond and Related Materials</i> , 2007 , 16, 1078-1081	3.5	30

5	In situ annealing of GaN dot structures grown by droplet epitaxy on (111) Si substrates. <i>Journal of Crystal Growth</i> , 2007 , 300, 118-122	1.6	11
4	Characterization of Small-Diameter Carbon Nanotubes and Carbon Nanocaps on SiC(000bar1) Using Raman Spectroscopy. <i>Japanese Journal of Applied Physics</i> , 2006 , 45, 7231-7233	1.4	8
3	Observation of Nanosized Cap Structures on 6H-SiC(000bar1) Substrates by Ultrahigh-Vacuum Scanning Tunneling Microscopy. <i>Japanese Journal of Applied Physics</i> , 2006 , 45, 372-374	1.4	15
2	Scanning-tunneling-microscopy of the formation of carbon nanocaps on SiC(000̄). <i>Chemical Physics Letters</i> , 2006 , 423, 317-320	2.5	23
1	Iridium-Catalyzed Single-Walled Carbon Nanotube Synthesis by Alcohol-Gas-Source Method Under Low Ethanol Pressure: Growth Temperature Dependence. <i>Crystal Research and Technology</i> , 2100226	1.3	