Takahiro Maruyama

List of Publications by Year
in descending order

40 papers	1,051 citations	430442 18 h-index	414034 32 g-index
40 all docs	40 docs citations	40 times ranked	1419 citing authors

#	Article	IF	Citations
1	Tailoring the field emission property of nitrogen-doped carbon nanotubes by controlling the graphitic/pyridinic substitution. Carbon, 2010, 48, 191-200.	5.4	122
2	Ultrafast and Reversible Gas-Sensing Properties of ZnO Nanowire Arrays Grown by Hydrothermal Technique. Journal of Physical Chemistry C, 2016, 120, 3019-3025.	1.5	105
3	Micro-structural, electron-spectroscopic and field-emission studies of carbon nitride nanotubes grown from cage-like and linear carbon sources. Carbon, 2009, 47, 1565-1575.	5.4	102
4	Single-walled carbon nanotube synthesis using Pt catalysts under low ethanol pressure via cold-wall chemical vapor deposition in high vacuum. Carbon, 2016, 96, 6-13.	5.4	60
5	Enhanced adsorption and catalytic degradation of organic dyes by nanometer iron oxide anchored to single-wall carbon nanotubes. Applied Surface Science, 2019, 488, 813-826.	3.1	58
6	Controllable growth of highly N-doped carbon nanotubes from imidazole: a structural, spectroscopic and field emission study. Journal of Materials Chemistry, 2010, 20, 4128.	6.7	54
7	Low temperature growth of carbon nanotubes on Si substrates in high vacuum. Diamond and Related Materials, 2008, 17, 589-593.	1.8	39
8	STM and XPS studies of early stages of carbon nanotube growth by surface decomposition of 6Hâ€“SiC(000-1) under various oxygen pressures. Diamond and Related Materials, 2007, 16, 1078-1081.	1.8	38
9	Nitrogen-Mediated Wet-Chemical Formation of Carbon Nitride/ZnO Heterojunctions for Enhanced Field Emission. Langmuir, 2010, 26, 5527-5533.	1.6	36
10	Vertically aligned growth of small-diameter single-walled carbon nanotubes by alcohol catalytic chemical vapor deposition with Ir catalyst. Applied Surface Science, 2020, 509, 145340.	3.1	29
11	Synthesis of double-walled carbon nanotube films and their field emission properties. Carbon, 2010, 48, 2882-2889.	5.4	26
12	Facile Decoration of Platinum Nanoparticles on Carbon-Nitride Nanotubes via Microwave-Assisted Chemical Reduction and Their Optimization for Field-Emission Application. Journal of Physical Chemistry C, 2010, 114, 5107-5112.	1.5	26
13	Unveiling the Evolutions of Nanotube Diameter Distribution during the Growth of Single-Walled Carbon Nanotubes. ACS Nano, 2017, 11, 3081-3088.	7.3	25
14	Current status of single-walled carbon nanotube synthesis from metal catalysts by chemical vapor deposition. Materials Express, 2018, 8, 1-20.	0.2	25
15	Scanning-tunneling-microscopy of the formation of carbon nanocaps on SiC(000â¯1). Chemical Physics Letters, 2006, 423, 317-320.	1.2	24
16	Single-Walled Carbon Nanotube Growth in High Vacuum Using Pt Catalyst in Alcohol Gas Source Method. Materials Express, 2011, 1, 267-272.	0.2	24
17	Single-walled carbon nanotube synthesis on SiO2/Si substrates at very low pressures by the alcohol gas source method using a Pt catalyst. Diamond and Related Materials, 2012, 26, 78-82.	1.8	20
18	Low temperature growth of single-walled carbon nanotubes from Rh catalysts. Carbon, 2017, 116, 128-132.	5.4	19

#	Article	IF	Citations
19	Direct growth of multilayer graphene by precipitation using W capping layer. Japanese Journal of Applied Physics, 2016, 55, 100302.	0.8	18
20	Low-Temperature Synthesis of Single-Walled Carbon Nanotubes by Alcohol Gas Source Growth in High Vacuum. Journal of Nanoscience and Nanotechnology, 2010, 10, 4095-4101.	0.9	17
21	Temperature dependence of selective growth of GaN by ammonia-based metal-organic molecular beam epitaxy. Journal of Crystal Growth, 2011, 318, 450-453.	0.7	17
22	Observation of Nanosized Cap Structures on 6Hâ€“SiC(000ar1) Substrates by Ultrahigh-Vacuum Scanning Tunneling Microscopy. Japanese Journal of Applied Physics, 2006, 45, 372-374.	0.8	16
23	Low temperature growth of single-walled carbon nanotubes from Ru catalysts by alcohol catalytic chemical vapor deposition. Diamond and Related Materials, 2017, 77, 97-101.	1.8	15
24	In situ annealing of GaN dot structures grown by droplet epitaxy on (111) Si substrates. Journal of Crystal Growth, 2007, 300, 118-122.	0.7	13
25	Single-walled carbon nanotube growth on SiO2/Si using Rh catalysts by alcohol gas source chemical vapor deposition. Diamond and Related Materials, 2016, 63, 159-164.	1.8	12
26	Polyaniline/carbon nanotube/CdS quantum dot composites with enhanced optical and electrical properties. Applied Surface Science, 2016, 364, 176-180.	3.1	12
27	Effect of mask material on selective growth of GaN by RF-MBE. Journal of Crystal Growth, 2011, 324, 88-92.	0.7	10
28	Characterization of Small-Diameter Carbon Nanotubes and Carbon Nanocaps on SiC(000ar1) Using Raman Spectroscopy. Japanese Journal of Applied Physics, 2006, 45, 7231-7233.	0.8	9
29	Optimization of initial growth in low-angle incidence microchannel epitaxy of GaAs on (001) GaAs substrates. Journal of Crystal Growth, 2008, 310, 1571-1575.	0.7	9
30	Initial stage of carbon nanotube formation process by surface decomposition of SiC: STM and NEXAFS study. Diamond and Related Materials, 2011, 20, 1325-1328.	1.8	9
31	Low angle incidence microchannel epitaxy of GaN grown by ammonia-based metalâ€“organic molecular beam epitaxy. Journal of Crystal Growth, 2011, 318, 446-449.	0.7	9
32	Selective growth of (001) GaAs using a patterned graphene mask. Journal of Crystal Growth, 2014, 401, 563-566.	0.7	8
33	Low-temperature synthesis of single-walled carbon nanotubes with Co catalysts via alcohol catalytic chemical vapor deposition under high vacuum. Materials Today Communications, 2019, 19, 51-55.	0.9	8
34	Effect of crystallographic orientation of microchannel on low-angle incidence microchannel epitaxy on (001) GaAs substrate. Journal of Crystal Growth, 2009, 311, 1778-1782.	0.7	7
35	Effect of Annealing in Hydrogen Atmosphere on Carbon Nanocap Formation in Surface Decomposition of 6H-SiC(000-1). Journal of Nanoscience and Nanotechnology, 2010, 10, 4054-4059.	0.9	7
36	Effect of Buffer Thickness on Single-Walled Carbon Nanotube Growth Using Aluminum Oxide Buffer Layer with Alcohol Gas Source Method. Journal of Nanoscience and Nanotechnology, 2010, 10, 3929-3933.	0.9	7

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37	Liquid-phase epitaxy of GaAs by temperature difference method to realize wide lateral growth. Journal of Crystal Growth, 2008, 310, 1642-1646.	0.7	6
38	Direct Growth of Single-Walled Carbon Nanotube Films and Their Optoelectric Properties. Journal of Physical Chemistry C, 2009, 113, 12079-12084.	1.5	5
39	SWNT growth on Al2Ox/Co/Al2Ox multilayer catalyst using alcohol gas source method in high vacuum. Journal of Crystal Growth, 2011, 318, 1101-1104.	0.7	4
40	Iridiumâ€Catalyzed Singleâ€Walled Carbon Nanotube Synthesis by Alcoholâ€Gasâ€Source Method Under Low Ethanol Pressure: Growth Temperature Dependence. Crystal Research and Technology, 0, , 2100226.	0.6	1