Takahiro Maruyama

List of Publications by Citations

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	Tailoring the field emission property of nitrogen-doped carbon nanotubes by controlling the graphitic/pyridinic substitution. *Carbon*, **2010**, 48, 191-200	10.4	113
39	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	10.4	93
38	Ultrafast and Reversible Gas-Sensing Properties of ZnO Nanowire Arrays Grown by Hydrothermal Technique. *Journal of Physical Chemistry C*, **2016**, 120, 3019-3025	3.8	90
37	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	10.4	49
36	Controllable growth of highly N-doped carbon nanotubes from imidazole: a structural, spectroscopic and field emission study. *Journal of Materials Chemistry*, **2010**, 20, 4128		49
35	Low temperature growth of carbon nanotubes on Si substrates in high vacuum. *Diamond and Related Materials*, **2008**, 17, 589-593	3.5	35
34	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	6.7	33
33	Nitrogen-mediated wet-chemical formation of carbon nitride/ZnO heterojunctions for enhanced field emission. *Langmuir*, **2010**, 26, 5527-33	4	30
32	STM and XPS studies of early stages of carbon nanotube growth by surface decomposition of 6H-SiC(000-1) under various oxygen pressures. *Diamond and Related Materials*, **2007**, 16, 1078-1081	3.5	30
31	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	3.8	25
30	Synthesis of double-walled carbon nanotube films and their field emission properties. *Carbon*, **2010** , 48, 2882-2889	10.4	24
29	Scanning-tunneling-microscopy of the formation of carbon nanocaps on SiC(000$\bar{1}$). *Chemical Physics Letters*, **2006**, 423, 317-320	2.5	23
28	Unveiling the Evolutions of Nanotube Diameter Distribution during the Growth of Single-Walled Carbon Nanotubes. *ACS Nano*, **2017**, 11, 3081-3088	16.7	21
27	Single-Walled Carbon Nanotube Growth in High Vacuum Using Pt Catalyst in Alcohol Gas Source Method. *Materials Express*, **2011**, 1, 267-272	1.3	21
26	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	3.5	19
25	Low temperature growth of single-walled carbon nanotubes from Rh catalysts. *Carbon*, **2017**, 116, 128-132	10.4	17
24	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	6.7	16

23	Low-temperature synthesis of single-walled carbon nanotubes by alcohol gas source growth in high vacuum. *Journal of Nanoscience and Nanotechnology*, **2010**, 10, 4095-101	1.3	15
22	Observation of Nanosized Cap Structures on 6H□SiC(000bar1) Substrates by Ultrahigh-Vacuum Scanning Tunneling Microscopy. *Japanese Journal of Applied Physics*, **2006**, 45, 372-374	1.4	15
21	Current status of single-walled carbon nanotube synthesis from metal catalysts by chemical vapor deposition. *Materials Express*, **2018**, 8, 1-20	1.3	14
20	Temperature dependence of selective growth of GaN by ammonia-based metal-organic molecular beam epitaxy. *Journal of Crystal Growth*, **2011**, 318, 450-453	1.6	14
19	Direct growth of multilayer graphene by precipitation using W capping layer. *Japanese Journal of Applied Physics*, **2016**, 55, 100302	1.4	14
18	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	3.5	12
17	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	3.5	12
16	Polyaniline/carbon nanotube/CdS quantum dot composites with enhanced optical and electrical properties. *Applied Surface Science*, **2016**, 364, 176-180	6.7	11
15	In situ annealing of GaN dot structures grown by droplet epitaxy on (111) Si substrates. *Journal of Crystal Growth*, **2007**, 300, 118-122	1.6	11
14	Optimization of initial growth in low-angle incidence microchannel epitaxy of GaAs on (001) GaAs substrates. *Journal of Crystal Growth*, **2008**, 310, 1571-1575	1.6	9
13	Initial stage of carbon nanotube formation process by surface decomposition of SiC: STM and NEXAFS study. *Diamond and Related Materials*, **2011**, 20, 1325-1328	3.5	8
12	Effect of mask material on selective growth of GaN by RF-MBE. *Journal of Crystal Growth*, **2011**, 324, 88-92	1.6	8
11	Characterization of Small-Diameter Carbon Nanotubes and Carbon Nanocaps on SiC(000bar1) Using Raman Spectroscopy. *Japanese Journal of Applied Physics*, **2006**, 45, 7231-7233	1.4	8
10	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, 3929-33	1.3	7
9	Effect of crystallographic orientation of microchannel on low-angle incidence microchannel epitaxy on (001) GaAs substrate. *Journal of Crystal Growth*, **2009**, 311, 1778-1782	1.6	7
8	Low angle incidence microchannel epitaxy of GaN grown by ammonia-based metal□rganic molecular beam epitaxy. *Journal of Crystal Growth*, **2011**, 318, 446-449	1.6	6
7	Liquid-phase epitaxy of GaAs by temperature difference method to realize wide lateral growth. *Journal of Crystal Growth*, **2008**, 310, 1642-1646	1.6	6
6	Direct Growth of Single-Walled Carbon Nanotube Films and Their Optoelectric Properties. *Journal of Physical Chemistry C*, **2009**, 113, 12079-12084	3.8	5

5	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, 4054-9	1.3	5
4	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	2.5	5
3	Selective growth of (001) GaAs using a patterned graphene mask. *Journal of Crystal Growth*, **2014**, 401, 563-566	1.6	4
2	SWNT growth on Al2Ox/Co/Al2Ox multilayer catalyst using alcohol gas source method in high vacuum. *Journal of Crystal Growth*, **2011**, 318, 1101-1104	1.6	3
1	Iridium-Catalyzed Single-Walled Carbon Nanotube Synthesis by Alcohol-Gas-Source Method Under Low Ethanol Pressure: Growth Temperature Dependence. *Crystal Research and Technology*,2100226	1.3	