Guofang Zhong

List of Publications by Year
in descending order

49	2,023	279798 23	233421 45
papers	citations	h-index	g-index

49	49	49	2174
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Growth of Ultrahigh Density Single-Walled Carbon Nanotube Forests by Improved Catalyst Design. ACS Nano, 2012, 6, 2893-2903.	14.6	184
2	Growth Kinetics of 0.5 cm Vertically Aligned Single-Walled Carbon Nanotubes. Journal of Physical Chemistry B, 2007, 111, 1907-1910.	2.6	165
3	Multi-walled carbon nanotube-based gas sensors for NH3 detection. Diamond and Related Materials, 2004, 13, 1327-1332.	3.9	136
4	Low Temperature Synthesis of Extremely Dense and Vertically Aligned Single-Walled Carbon Nanotubes. Japanese Journal of Applied Physics, 2005, 44, 1558-1561.	1.5	130
5	Diffusion- and Reaction-Limited Growth of Carbon Nanotube Forests. ACS Nano, 2009, 3, 3560-3566.	14.6	127
6	Acetylene: A Key Growth Precursor for Single-Walled Carbon Nanotube Forests. Journal of Physical Chemistry C, 2009, 113, 17321-17325.	3.1	120
7	Very High Yield Growth of Vertically Aligned Single-Walled Carbon Nanotubes by Point-Arc Microwave Plasma CVD. Chemical Vapor Deposition, 2005, 11, 127-130.	1.3	85
8	Semi-quantitative study on the fabrication of densely packed and vertically aligned single-walled carbon nanotubes. Carbon, 2006, 44, 2009-2014.	10.3	84
9	Investigating the Diameter-Dependent Stability of Single-Walled Carbon Nanotubes. ACS Nano, 2009, 3, 1557-1563.	14.6	82
10	Direct Evidence for Root Growth of Vertically Aligned Single-Walled Carbon Nanotubes by Microwave Plasma Chemical Vapor Deposition. Journal of Physical Chemistry B, 2005, 109, 19556-19559.	2.6	68
11	Use of carbon nanotubes for VLSI interconnects. Diamond and Related Materials, 2009, 18, 957-962.	3.9	54
12	CVD diamond: a novel high Î³-coating for plasma display panels?. Diamond and Related Materials, 2001, 10, 809-817.	3.9	50
13	Growth of Continuous Monolayer Graphene with Millimeter-sized Domains Using Industrially Safe Conditions. Scientific Reports, 2016, 6, 21152.	3.3	48
14	A new type of DC arc plasma torch for low cost large area diamond deposition. Diamond and Related Materials, 1998, 7, 737-741.	3.9	44
15	Carbon nanotube growth for through silicon via application. Nanotechnology, 2013, 24, 125603.	2.6	39
16	Economical deposition of a large area of high quality diamond film by a high power DC arc plasma jet operating in a gas recycling mode. Diamond and Related Materials, 2000, 9, 1655-1659.	3.9	37
17	Growth of continuous graphene by open roll-to-roll chemical vapor deposition. Applied Physics Letters, 2016, 109, .	3.3	36
18	Metal-catalyst-free growth of graphene on insulating substrates by ammonia-assisted microwave plasma-enhanced chemical vapor deposition. RSC Advances, 2017, 7, 33185-33193.	3.6	34

#	Article	IF	Citations
19	Influence of Packing Density and Surface Roughness of Vertically-Aligned Carbon Nanotubes on Adhesive Properties of Gecko-Inspired Mimetics. ACS Applied Materials & Interfaces, 2015, 7, 3626-3632.	8.0	33
20	Growth of high quality, high density single-walled carbon nanotube forests on copper foils. Carbon, 2016, 98, 624-632.	10.3	31
21	Post-CMOS wafer level growth of carbon nanotubes for low-cost microsensorsâ€"a proof of concept. Nanotechnology, 2010, 21, 485301.	2.6	27
22	Growth of high-density carbon nanotube forests on conductive TiSiN supports. Applied Physics Letters, 2015, 106, 083108.	3.3	26
23	Applications of Carbon Nanotubes Grown by Chemical Vapor Deposition. Japanese Journal of Applied Physics, 2012, 51, 01AH01.	1.5	25
24	High density carbon nanotube growth using a plasma pretreated catalyst. Carbon, 2013, 53, 339-345.	10.3	24
25	Applications of Carbon Nanotubes Grown by Chemical Vapor Deposition. Japanese Journal of Applied Physics, 2012, 51, 01AH01.	1.5	23
26	Highâ€density growth of horizontally aligned carbon nanotubes for interconnects. Physica Status Solidi (B): Basic Research, 2010, 247, 2669-2672.	1.5	22
27	Chemical vapor deposition of carbon nanotube forests. Physica Status Solidi (B): Basic Research, 2012, 249, 2315-2322.	1.5	22
28	Single-step CVD growth of high-density carbon nanotube forests on metallic Ti coatings through catalyst engineering. Carbon, 2014, 67, 680-687.	10.3	22
29	Large-Area Synthesis of Carbon Nanofibers by Low-Power Microwave Plasma-Assisted CVD. Chemical Vapor Deposition, 2004, 10, 125-128.	1.3	21
30	Observation of excitonic effects in metallic single-walled carbon nanotubes. Physical Review B, 2010, 82, .	3.2	20
31	Memory effects of carbon nanotube-based field effect transistors. Diamond and Related Materials, 2004, 13, 1967-1970.	3.9	18
32	Dielectric screening effects on transition energies in aligned carbon nanotubes. Physical Review B, 2012, 85, .	3.2	17
33	The mechanism of the sudden termination of carbon nanotube supergrowth. Carbon, 2011, 49, 214-221.	10.3	16
34	Synthesis of carbon nanotubes and graphene for VLSI interconnects. Microelectronic Engineering, 2013, 107, 210-218.	2.4	15
35	Complementary metal-oxide-semiconductor-compatible and self-aligned catalyst formation for carbon nanotube synthesis and interconnect fabrication. Journal of Applied Physics, 2012, 111, .	2.5	13
36	Fracture behavior of thick diamond films prepared by DC arc plasma jet method. Diamond and Related Materials, 1998, 7, 733-736.	3.9	12

#	Article	IF	Citations
37	Synthesis of highly oriented and dense conical carbon nanofibers by a DC bias-enhanced microwave plasma CVD method. Thin Solid Films, 2004, 464-465, 315-318.	1.8	12
38	Controlling the Catalyst During Carbon Nanotube Growth. Journal of Nanoscience and Nanotechnology, 2008, 8, 6105-6111.	0.9	12
39	Carbon nanotubes for interconnects in VLSI integrated circuits. Physica Status Solidi (B): Basic Research, 2008, 245, 2303-2307.	1.5	11
40	Low temperature growth of fully covered single-layer graphene using a CoCu catalyst. Nanoscale, 2017, 9, 14467-14475.	5.6	11
41	Carbon nanotube forests growth using catalysts from atomic layer deposition. Journal of Applied Physics, 2014, 115, 144303.	2.5	10
42	Input power dependence of growth rate and quality of diamond films deposited in a d.c. arcjet system. Diamond and Related Materials, 1999, 8, 211-214.	3.9	9
43	Carbon transition efficiency and process cost in high-rate, large-area deposition of diamond films by DC arc plasma jet. Diamond and Related Materials, 2000, 9, 1682-1686.	3.9	9
44	Selective growth of carbon nanostructures on nickel implanted nanopyramid array. Applied Surface Science, 2004, 234, 72-77.	6.1	9
45	Deposition of large area high quality diamond wafers with high growth rate by DC arc plasma jet. Diamond and Related Materials, 2000, 9, 1673-1677.	3.9	8
46	Roll-to-roll graphene films for non-disposable electrocardiogram electrodes. Journal Physics D: Applied Physics, 2021, 54, 364003.	2.8	8
47	Diameter and wall number control of carbon nanotubes by chemical vapor deposition. Journal of Applied Physics, 2013, 114, .	2.5	6
48	Nondestructive optical visualisation of graphene domains and boundaries. Nanoscale, 2016, 8, 16427-16434.	5.6	5
49	Increased carbon nanotube area density after catalyst generation from cobalt disilicide using a cyclic reactive ion etching approach. Journal of Applied Physics, 2014, 115, 144302.	2.5	3