Hidefumi Hiura

List of Publications by Year
in descending order

51	8,142	236612	182168
papers	citations	25 h-index	51 g-index

68	68	68	7919
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Electrical conductivity of individual carbon nanotubes. Nature, 1996, 382, 54-56.	13.7	2,391
2	Opening carbon nanotubes with oxygen and implications for filling. Nature, 1993, 362, 522-525.	13.7	994
3	Capillarity and Wetting of Carbon Nanotubes. Science, 1994, 265, 1850-1852.	6.0	835
4	Opening and purification of carbon nanotubes in high yields. Advanced Materials, 1995, 7, 275-276.	11.1	539
5	Purification of nanotubes. Nature, 1994, 367, 519-519.	13.7	464
6	Formation of Metal-Encapsulating Si Cage Clusters. Physical Review Letters, 2001, 86, 1733-1736.	2.9	440
7	Raman studies of carbon nanotubes. Chemical Physics Letters, 1993, 202, 509-512.	1.2	402
8	Role of sp3 defect structures in graphite and carbon nanotubes. Nature, 1994, 367, 148-151.	13.7	252
9	Decoration of carbon nanotubes. Advanced Materials, 1996, 8, 155-157.	11.1	233
10	Multiple Rabi Splittings under Ultrastrong Vibrational Coupling. Physical Review Letters, 2016, 117, 153601.	2.9	168
11	Patterns in the bulk growth of carbon nanotubes. Chemical Physics Letters, 1993, 209, 83-90.	1.2	153
12	Graphene in 3-dimensions: Towards graphite origami. Advanced Materials, 1995, 7, 582-586.	11.1	138
13	Annealing effect on carbon nanotubes. An ESR study. Chemical Physics Letters, 1995, 233, 47-51.	1.2	124
14	Enhanced Raman Scattering from Vibroâ€Polariton Hybrid States. Angewandte Chemie - International Edition, 2015, 54, 7971-7975.	7.2	108
15	Tailoring graphite layers by scanning tunneling microscopy. Applied Surface Science, 2004, 222, 374-381.	3.1	104
16	Determination of the Number of Graphene Layers: Discrete Distribution of the Secondary Electron Intensity Stemming from Individual Graphene Layers. Applied Physics Express, 2010, 3, 095101.	1.1	81
17	Electron spin resonance of carbon nanotubes. Chemical Physics Letters, 1994, 225, 161-164.	1.2	78
18	Topology and energetics of metal-encapsulating Si fullerenelike cage clusters. Physical Review B, 2002, 66, .	1.1	78

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19	Enhanced Logic Performance with Semiconducting Bilayer Graphene Channels. ACS Nano, 2011, 5, 500-506.	7.3	40
20	Time-resolved resonance Raman spectroscopy of diphenylacetylene: structures and dynamics of the lowest excited triplet state, radical cation, and radical anion. The Journal of Physical Chemistry, 1992, 96, 8909-8915.	2.9	36
21	Dopant isotope effect on superconductivity in Rb3C60. Physica C: Superconductivity and Its Applications, 1992, 203, 163-166.	0.6	35
22	Direct Observation of C ₆₀ Exciton. Europhysics Letters, 1994, 25, 503-508.	0.7	33
23	Origins of Fullerenes in Rocks. Science, 1995, 268, 1634-1635.	6.0	31
24	Size-selective formation of tungsten cluster-containing silicon cages by the reactions of Wn+(n=1â€“5) with SiH4. Chemical Physics Letters, 2004, 388, 463-467.	1.2	29
25	Time-resolved resonance Raman and molecular orbital studies of the structures of the transient species involved in the photochromic reaction of 2,2â€²-spirobi[2H-1-benzopyran]. Journal of Molecular Structure, 1991, 242, 1-14.	1.8	25
26	Electronic properties of transition-metal-atom doped Si cage clusters. European Physical Journal D, 2003, 24, 241-244.	0.6	25
27	Role of atomic terraces and steps in the electron transport properties of epitaxial graphene grown on SiC. AIP Advances, 2012, 2, .	0.6	21
28	Self-redirection of tearing edges in graphene: Tight-binding molecular dynamics simulations. Physical Review B, 2009, 80, .	1.1	19
29	Liquid phase growth of graphene on silicon carbide. Carbon, 2012, 50, 5076-5084.	5.4	18
30	Enhanced Raman Scattering from Vibroâ€Polariton Hybrid States. Angewandte Chemie, 2015, 127, 8082-8086.	1.6	17
31	Carborane superclusters formed by ionâ€“molecule reactions in an ion trap. Journal of Molecular Structure, 2005, 735-736, 367-374.	1.8	15
32	Growth of hydrogenated silicon cluster ions using an ion trap. Chemical Physics Letters, 2000, 328, 409-414.	1.2	14
33	Structural and charge transport characteristics of graphene layers obtained from CVD thin film and bulk graphite materials. Carbon, 2013, 52, 49-55.	5.4	12
34	Time-resolved resonance Raman spectra of chlorophyll a in the lowest excited triplet state: Effect of the state of coordination. Chemical Physics Letters, 1990, 169, 85-88.	1.2	11
35	Structures and dynamics of the lowest excited triplet state, radical cation and radical anion of 1,4-diphenylbutadiyne: time-resolved resonance Raman study. Journal of Molecular Structure, 1993, 301, 47-56.	1.8	11
36	Time-resolved resonance Raman studies of the structures of the lowest triplet state and the radical anion of benzil. The Journal of Physical Chemistry, 1992, 96, 9120-9127.	2.9	10

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37	Synthesis, Purification and Properties of Carbon Nanotubes. Molecular Crystals and Liquid Crystals, 1995, 267, 267-276.	0.3	10
38	Mass-selective resonance ion ejection from the external quadrupole static attraction ion trap. Review of Scientific Instruments, 2001, 72, 2893-2899.	0.6	8
39	Observation of Tunneling Current in Semiconducting Graphenepâ€“nJunctions. Journal of the Physical Society of Japan, 2012, 81, 014708.	0.7	8
40	Configuration-sensitive infrared bands and vibrational assignments of S-alkyldithizones based on isotopic substitutions. Spectrochimica Acta Part A: Molecular Spectroscopy, 1988, 44, 1409-1415.	0.1	7
41	Generation of circular and hexagonal microholes in a graphite surface. Journal of Materials Research, 2001, 16, 1287-1292.	1.2	7
42	Time-resolved absorption and time-resolved Raman spectroscopies of the photochemistry of carbazole and N-ethylcarbazole. Journal of Molecular Structure, 2003, 661-662, 481-489.	1.8	7
43	Charge-transfer doping by fullerenes on oxidized Si surfaces. Journal of Applied Physics, 2007, 102, 074504.	1.1	7
44	Controllable gallium melt-assisted interfacial graphene growth on silicon carbide. Diamond and Related Materials, 2012, 24, 34-38.	1.8	7
45	Resonance raman and absorption studies of the configurations of photochromic 3-alkyl-substituted 1,5-diphenylformazans: steric effect of the substituent. Journal of Molecular Structure, 1989, 212, 221-233.	1.8	5
46	Study of the configurations of 3-aryl-substituted 1,5-diphenylformazans by resonance Raman and absorption spectroscopy: steric and conjugation effects of the substituent. Journal of Molecular Structure, 1989, 212, 235-245.	1.8	4
47	Structures and Properties of C₆₀ & C₇₀ Thin Films Fabricated by Organic MBE. Materials Research Society Symposia Proceedings, 1992, 247, 321.	0.1	4
48	Structures of transient species in the photochromic reaction of 1â€²,3â€²,3â€²-trimethylspiro[2H-1-benzopyran-2,2â€²-indoline]: Time-resolved resonance Raman study of isotopically substituted analogues. Spectrochimica Acta Part A: Molecular Spectroscopy, 1994, 50, 1487-1498.	0.1	3
49	Concerted Chemical-Mechanical Reaction in Catalyzed Growth of Confined Graphene Layers into Hexagonal Disks. Journal of Physical Chemistry C, 2012, 116, 9106-9113.	1.5	1
50	Gate-Voltage Modulation in Graphene. , 2011, , 179-187.		1
51	Resistance Evaluation and Growth of Carbon Nanotubes. IEEJ Transactions on Electronics, Information and Systems, 2006, 126, 720-724.	0.1	0