

Hiroyuki Muramatsu

List of Publications by Year in descending order

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114
papers

4,863
citations

117571

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95218

68
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116
all docs

116
docs citations

116
times ranked

7521
citing authors

#	ARTICLE	IF	CITATIONS
1	Sharma <i>et al.</i> Reply: Physical Review Letters, 2022, 128, .	2.9	2
2	Structural behaviours of nanoporous carbon fabricated from rice husk. Physica E: Low-Dimensional Systems and Nanostructures, 2020, 115, 113661.	1.3	3
3	Environmental effects, intertube interactions and π - π bond re-hybridization in bundles of double- and triple-walled carbon nanotubes. Carbon, 2020, 158, 651-661.	5.4	0
4	Anharmonicity and Universal Response of Linear Carbon Chain Mechanical Properties under Hydrostatic Pressure. Physical Review Letters, 2020, 125, 105501.	2.9	22
5	Hybridized double-walled carbon nanotubes and activated carbon as free-standing electrode for flexible supercapacitor applications. Carbon Letters, 2020, 30, 527-534.	3.3	20
6	Outer Tube-Selectively Boron-Doped Double-Walled Carbon Nanotubes for Thermoelectric Applications. ACS Applied Nano Materials, 2020, 3, 3347-3354.	2.4	8
7	Constraint spaces in carbon materials. RSC Advances, 2019, 9, 22823-22840.	1.7	6
8	Rapidly self-heating shape memory polyurethane nanocomposite with boron-doped single-walled carbon nanotubes using near-infrared laser. Composites Part B: Engineering, 2019, 175, 107065.	5.9	25
9	Field emission properties of a DWCNT bundle and a single MWCNT. Journal of Physics and Chemistry of Solids, 2018, 113, 229-234.	1.9	6
10	Nanostructured carbon materials for enhanced nitrobenzene adsorption: Physical vs. chemical surface properties. Carbon, 2018, 139, 833-844.	5.4	55
11	Synthesis of outer tube-selectively nitrogen-doped double-walled carbon nanotubes by nitrogen plasma treatment. Nanoscale, 2018, 10, 15938-15942.	2.8	9
12	Densification of metal oxide films synthesized from metal complexes by flame spraying. Surface and Coatings Technology, 2017, 325, 89-97.	2.2	6
13	Hydrolytic Unzipping of Boron Nitride Nanotubes in Nitric Acid. Nanoscale Research Letters, 2017, 12, 94.	3.1	10
14	Flame-Sprayed Y ₂ O ₃ Films with Metal-EDTA Complex Using Various Cooling Agents. Journal of Thermal Spray Technology, 2017, 26, 195-202.	1.6	4
15	Effective NaCl and dye rejection of hybrid graphene oxide/graphene layered membranes. Nature Nanotechnology, 2017, 12, 1083-1088.	15.6	307
16	Structural evolution of hydrothermal carbon spheres induced by high temperatures and their electrical properties under compression. Carbon, 2017, 121, 426-433.	5.4	25
17	Synthesis of Strontium Oxide Whiskers with Preferential $\langle 111 \rangle$ Orientation by Atmospheric Chemical Vapor Deposition. Journal of Materials Science Research, 2016, 5, 50.	0.1	4
18	A Review of Double-Walled and Triple-Walled Carbon Nanotube Synthesis and Applications. Applied Sciences (Switzerland), 2016, 6, 109.	1.3	44

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19	Linear carbon chains inside multi-walled carbon nanotubes: Growth mechanism, thermal stability and electrical properties. Carbon, 2016, 107, 217-224.	5.4	33
20	Synthesis of (Y,Er) ₂ O ₃ Films from Multiple-Nuclei EDTA·(Y,Er)·H Complexes by Flame Spray Method. Materials Transactions, 2016, 57, 70-74.	0.4	4
21	Spontaneously restored electrical conductivity of bioactive gel comprising mussel adhesive protein-coated carbon nanotubes. RSC Advances, 2016, 6, 87044-87048.	1.7	7
22	Optical sensitivity of mussel protein-coated double-walled carbon nanotubes on the iron-DOPA conjugation bond. RSC Advances, 2016, 6, 16308-16313.	1.7	1
23	Thermal treatment-induced structural changes in graphene nanoribbons obtained from partially unzipped double-walled carbon nanotubes. RSC Advances, 2016, 6, 91562-91566.	1.7	1
24	Elucidating the local interfacial structure of highly photoresponsive carbon nanotubes/PbS-QDs based nano hybrids grown by pulsed laser deposition. Carbon, 2016, 96, 145-152.	5.4	15
25	Synthesis and characterization of graphene from rice husks. Tanso, 2016, 2016, 182-190.	0.1	7
26	G and D bands in double- and triple-walled carbon nanotubes: A Raman study. Physical Review B, 2015, 91, .	5.4	15
27	Nanocarbons from rice husk by microwave plasma irradiation: From graphene and carbon nanotubes to graphenated carbon nanotube hybrids. Carbon, 2015, 94, 479-484.	5.4	81
28	Microwave plasma-induced graphene-sheet fibers from waste coffee grounds. Journal of Materials Chemistry A, 2015, 3, 14545-14549.	5.2	22
29	Compressive strength sensitivity of cement mortar using rice husk-derived graphene with a high specific surface area. Construction and Building Materials, 2015, 96, 189-197.	3.2	67
30	Electrochemical role of oxygen containing functional groups on activated carbon electrode. RSC Advances, 2014, 4, 62678-62683.	1.7	17
31	Rice Husk-Derived Graphene with Nano-Sized Domains and Clean Edges. Small, 2014, 10, 2766-2770.	5.2	181
32	Role of Intertube Interactions in Double- and Triple-Walled Carbon Nanotubes. ACS Nano, 2014, 8, 1330-1341.	7.3	24
33	Deposition of Metal Oxide Films from Metal-EDTA Complexes by Flame Spray Technique. Journal of Thermal Spray Technology, 2014, 23, 833-838.	1.6	9
34	Molybdenum-encapsulation modified the optical property of single walled carbon nanotubes. RSC Advances, 2014, 4, 54747-54751.	1.7	0
35	CO ₂ adsorption on crystalline graphitic nanostructures. Journal of CO ₂ Utilization, 2014, 5, 60-65.	3.3	17
36	A selective way to create defects by the thermal treatment of fluorinated double walled carbon nanotubes. Chinese Journal of Catalysis, 2014, 35, 864-868.	6.9	7

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37	Double-walled carbon nanotubes: synthesis, structural characterization, and application. Carbon Letters, 2014, 15, 77-88.	3.3	35
38	Conducting linear chains of sulphur inside carbon nanotubes. Nature Communications, 2013, 4, 2162.	5.8	228
39	A reversible strain-induced electrical conductivity in cup-stacked carbon nanotubes. Nanoscale, 2013, 5, 10212.	2.8	12
40	Synthesis and luminescence properties of Eu 2+ -doped 8-coordinated SrO phosphors. Ceramics International, 2013, 39, 7115-7118.	2.3	9
41	Large Area Films of Alternating Graphene-Carbon Nanotube Layers Processed in Water. ACS Nano, 2013, 7, 10788-10798.	7.3	85
42	Boron-assisted coalescence of parallel multi-walled carbon nanotubes. RSC Advances, 2013, 3, 26266.	1.7	5
43	Iron Particle Nanodrilling of Few Layer Graphene at Low Electron Beam Accelerating Voltages. Particle and Particle Systems Characterization, 2013, 30, 76-82.	1.2	9
44	Characterization of Bundled and Individual Triple-Walled Carbon Nanotubes by Resonant Raman Spectroscopy. ACS Nano, 2013, 7, 2381-2387.	7.3	30
45	Formation of Nitrogen-Doped Graphene Nanoribbons via Chemical Unzipping. ACS Nano, 2013, 7, 2192-2204.	7.3	80
46	Controlled interlayer spacing of scrolled reduced graphene nanotubes by thermal annealing. RSC Advances, 2013, 3, 4161.	1.7	13
47	Optical and structural stability of blue SrO:Eu ²⁺ phosphor. Journal of Solid State Chemistry, 2013, 204, 186-189.	1.4	9
48	Preparation and structure analysis of double wall-carbon nanotubes encapsulating gadolinium trichloride nanowires. Tanso, 2013, 2013, 279-283.	0.1	0
49	Highly Conductive One-Dimensional Manganese Oxide Wires by Coating with Graphene Oxides. Applied Physics Express, 2012, 5, 105001.	1.1	1
50	Dramatic change of water-cluster accessibility of highly pure double-walled carbon nanotubes with high temperature annealing. Nanoscale, 2012, 4, 4960.	2.8	3
51	Raman Spectroscopy of Boron-Doped Single-Layer Graphene. ACS Nano, 2012, 6, 6293-6300.	7.3	245
52	Superconductivity in Bundles of Double-Wall Carbon Nanotubes. Scientific Reports, 2012, 2, 625.	1.6	43
53	Clean Nanotube Unzipping by Abrupt Thermal Expansion of Molecular Nitrogen: Graphene Nanoribbons with Atomically Smooth Edges. ACS Nano, 2012, 6, 2261-2272.	7.3	54
54	Nitrogen-doped graphene: beyond single substitution and enhanced molecular sensing. Scientific Reports, 2012, 2, 586.	1.6	563

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55	Determination of the stacking order of curved few-layered graphene systems. <i>Nanoscale</i> , 2012, 4, 6419.	2.8	5
56	Geometric and Electronic Structure of Closed Graphene Edges. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 2097-2102.	2.1	19
57	Single-wall carbon nanotube interactions with copper-oxamate building block of molecule-based magnets probed by resonance Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2012, 43, 1951-1956.	1.2	7
58	Catalytic metal-free formation of multi-walled carbon nanotubes in atmospheric arc discharge. <i>Carbon</i> , 2012, 50, 4588-4595.	5.4	40
59	Unusually High Dispersion of Nitrogen-Doped Carbon Nanotubes in DNA Solution. <i>Journal of Physical Chemistry B</i> , 2011, 115, 14295-14300.	1.2	8
60	Enhanced electrical conductivities of N-doped carbon nanotubes by controlled heat treatment. <i>Nanoscale</i> , 2011, 3, 4359.	2.8	60
61	Chirality-Dependent Transport in Double-Walled Carbon Nanotube Assemblies: The Role of Inner Tubes. <i>ACS Nano</i> , 2011, 5, 7547-7554.	7.3	28
62	Mass-Produced Multi-Walled Carbon Nanotubes as Catalyst Supports for Direct Methanol Fuel Cells. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 675-680.	0.9	3
63	Optically and Biologically Active Mussel Protein-Coated Double-Walled Carbon Nanotubes. <i>Small</i> , 2011, 7, 3292-3297.	5.2	31
64	Bulk Synthesis of Narrow Diameter and Highly Crystalline Triple-Walled Carbon Nanotubes by Coalescing Fullerene Peapods. <i>Advanced Materials</i> , 2011, 23, 1761-1764.	11.1	25
65	Behavior of the high frequency Raman modes of double-wall carbon nanotubes after doping with bromine or iodine vapors. <i>Carbon</i> , 2011, 49, 3585-3596.	5.4	19
66	Optical Spectroscopic Studies of Thermally Coalesced Single-Walled Carbon Nanotubes. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 3878-3883.	0.9	0
67	Boron Atoms as Loop Accelerator and Surface Stabilizer in Platelet-Type Carbon Nanofibers. <i>ChemPhysChem</i> , 2010, 11, 2345-2348.	1.0	15
68	Covalent Attachment of Aromatic Diisocyanate to the Sidewalls of Single- and Double-Walled Carbon Nanotubes. <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 4305-4308.	1.0	11
69	A simple route to short cup-stacked carbon nanotubes by sonication. <i>Carbon</i> , 2010, 48, 3643-3647.	5.4	9
70	Sensitive G-Band Raman Features for the Electrical Conductivity of Multi-Walled Carbon Nanotubes. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 3940-3944.	0.9	6
71	Raman and Fluorescence Spectroscopic Studies of a DNA-Dispersed Double-Walled Carbon Nanotube Solution. <i>ACS Nano</i> , 2010, 4, 1060-1066.	7.3	25
72	Observation of magnetic edge state in graphene nanoribbons. <i>Physical Review B</i> , 2010, 81, .	1.1	132

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73	Wall-to-wall stress induced in (6,5) semiconducting nanotubes by encapsulation in metallic outer tubes of different diameters: A resonance Raman study of individual C60-derived double-wall carbon nanotubes. <i>Nanoscale</i> , 2010, 2, 406-411.	2.8	25
74	Evidence of Water Adsorption in Hydrophobic Nanospaces of Highly Pure Double-Walled Carbon Nanotubes. <i>Journal of the American Chemical Society</i> , 2010, 132, 1214-1215.	6.6	37
75	Synthesis of catalytic chemical vapor grown carbon fibers: carbon nanotube and carbon nanofiber. <i>Tanso</i> , 2010, 2010, 153-160.	0.1	3
76	Strong and stable photoluminescence from the semiconducting inner tubes within double walled carbon nanotubes. <i>Applied Physics Letters</i> , 2009, 94, 083106.	1.5	34
77	Controlled growth of one-dimensional clusters of molybdenum atoms using double-walled carbon nanotube templating. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	8
78	Optical spectroscopic studies of photochemically oxidized single-walled carbon nanotubes. <i>Nanotechnology</i> , 2009, 20, 105708.	1.3	17
79	Loop formation in graphitic nanoribbon edges using furnace heating or Joule heating. <i>Journal of Vacuum Science & Technology B</i> , 2009, 27, 1996.	1.3	26
80	Effect of MoO ₃ as conditioning catalyst on synthesis of carbon nanotubes. <i>Journal of Materials Research</i> , 2009, 24, 1307-1310.	1.2	3
81	Defect-Enhanced Dispersion of Carbon Nanotubes in DNA Solutions. <i>ChemPhysChem</i> , 2009, 10, 2414-2417.	1.0	18
82	Transparent and Conductive Polyethylene Oxide Film by the Introduction of Individualized Single-Walled Carbon Nanotubes. <i>Macromolecular Rapid Communications</i> , 2009, 30, 2084-2088.	2.0	6
83	Bright Photoluminescence from the Inner Tubes of Peapod-Derived Double-Walled Carbon Nanotubes. <i>Small</i> , 2009, 5, 2678-2682.	5.2	38
84	Capacitance response of double-walled carbon nanotubes depending on surface modification. <i>Electrochemistry Communications</i> , 2009, 11, 719-723.	2.3	39
85	Combined catalyst system for preferential growth of few-walled carbon nanotubes. <i>Carbon</i> , 2009, 47, 2543-2546.	5.4	10
86	Properties of One-Dimensional Molybdenum Nanowires in a Confined Environment. <i>Nano Letters</i> , 2009, 9, 1487-1492.	4.5	43
87	Freestanding, bendable thin film for supercapacitors using DNA-dispersed double walled carbon nanotubes. <i>Applied Physics Letters</i> , 2009, 95, .	1.5	26
88	Comparison of the Resonance Raman Behavior of Double-Walled Carbon Nanotubes Doped with Bromine or Iodine Vapors. <i>Journal of Physical Chemistry C</i> , 2009, 113, 3934-3938.	1.5	23
89	Fundamental Understanding of Nanoporous Carbons for Energy Application Potentials. <i>Carbon Letters</i> , 2009, 10, 177-180.	3.3	6
90	Optical studies of inner tubes within double-walled carbon nanotubes. <i>Tanso</i> , 2009, 2009, 172-179.	0.1	0

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91	Raman study on electrochemical lithium insertion into multiwalled carbon nanotubes. Journal of Raman Spectroscopy, 2008, 39, 1183-1188.	1.2	9
92	Robust, Conducting, and Transparent Polymer Composites Using Surface-Modified and Individualized Double-Walled Carbon Nanotubes. Advanced Materials, 2008, 20, 4509-4512.	11.1	58
93	Efficient anchorage of Pt clusters on N-doped carbon nanotubes and their catalytic activity. Chemical Physics Letters, 2008, 463, 124-129.	1.2	91
94	Double-Wall Carbon Nanotubes Doped with Different Br ₂ Doping Levels: A Resonance Raman Study. Nano Letters, 2008, 8, 4168-4172.	4.5	28
95	Bulk Production of a New Form of sp^2 Carbon: Crystalline Graphene Nanoribbons. Nano Letters, 2008, 8, 2773-2778.	4.5	588
96	Diameter-selective separation of double-walled carbon nanotubes. Applied Physics Letters, 2008, 93, 223107.	1.5	18
97	Synthesis and Isolation of Molybdenum Atomic Wires. Nano Letters, 2008, 8, 237-240.	4.5	61
98	Selective Optical Property Modification of Double-Walled Carbon Nanotubes by Fluorination. ACS Nano, 2008, 2, 485-488.	7.3	64
99	CdSe quantum dot-decorated double walled carbon nanotubes: The effect of chemical moieties. Applied Physics Letters, 2008, 93, 051901.	1.5	13
100	Confirmation of blood flow in perforating arteries using fluorescein cerebral angiography during aneurysm surgery. Journal of Neurosurgery, 2007, 107, 68-73.	0.9	82
101	Selective Tuning of the Electronic Properties of Coaxial Nanocables through Exohedral Doping. Nano Letters, 2007, 7, 2383-2388.	4.5	43
102	Hysteretic transfer characteristics of double-walled and single-walled carbon nanotube field-effect transistors. Applied Physics Letters, 2007, 91, 143118.	1.5	11
103	Oxidation and Thermal Stability of Linear Carbon Chains Contained in Thermally Treated Double-Walled Carbon Nanotubes. Small, 2007, 3, 788-792.	5.2	12
104	Stacking Nature of the Catalytic Chemical Vapor Deposition-Derived Double-Walled Carbon Nanotubes. Journal of Nanoscience and Nanotechnology, 2006, 6, 3321-3324.	0.9	3
105	Development and Application of Carbon Nanotubes. Japanese Journal of Applied Physics, 2006, 45, 4883-4892.	0.8	94
106	Efficient H ₂ Adsorption by Nanopores of High-Purity Double-Walled Carbon Nanotubes. Journal of the American Chemical Society, 2006, 128, 12636-12637.	6.6	50
107	In Situ Raman Study on Single- and Double-Walled Carbon Nanotubes as a Function of Lithium Insertion. Small, 2006, 2, 667-676.	5.2	73
108	Nanotube Coalescence-Inducing Mode: A Novel Vibrational Mode in Carbon Systems. Small, 2006, 2, 1031-1036.	5.2	77

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109	TEM image simulation study of small carbon nanotubes and carbon nanowire. Carbon, 2006, 44, 1130-1136.	5.4	17
110	The possible way to evaluate the purity of double-walled carbon nanotubes over single wall carbon nanotubes by chemical doping. Chemical Physics Letters, 2006, 420, 377-381.	1.2	23
111	Formation of off-centered double-walled carbon nanotubes exhibiting wide interlayer spacing from bi-cables. Chemical Physics Letters, 2006, 432, 240-244.	1.2	6
112	Atomic Nanotube Welders: Boron Interstitials Triggering Connections in Double-Walled Carbon Nanotubes. Nano Letters, 2005, 5, 1099-1105.	4.5	72
113	Coalescence of Double-Walled Carbon Nanotubes: Formation of Novel Carbon Bicables. Nano Letters, 2004, 4, 1451-1454.	4.5	75
114	Hyomen Kagaku, 2004, 25, 352-3		