

Yoichi Murakami

List of Publications by Year in descending order

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68
papers

3,822
citations

147801

31
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118850

62
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all docs

68
docs citations

68
times ranked

3043
citing authors

#	ARTICLE	IF	CITATIONS
1	Growth of vertically aligned single-walled carbon nanotube films on quartz substrates and their optical anisotropy. <i>Chemical Physics Letters</i> , 2004, 385, 298-303.	2.6	522
2	Fluorescence spectroscopy of single-walled carbon nanotubes synthesized from alcohol. <i>Chemical Physics Letters</i> , 2004, 387, 198-203.	2.6	299
3	Polarization Dependence of the Optical Absorption of Single-Walled Carbon Nanotubes. <i>Physical Review Letters</i> , 2005, 94, 087402.	7.8	238
4	Direct synthesis of high-quality single-walled carbon nanotubes on silicon and quartz substrates. <i>Chemical Physics Letters</i> , 2003, 377, 49-54.	2.6	201
5	Characterization of single-walled carbon nanotubes catalytically synthesized from alcohol. <i>Chemical Physics Letters</i> , 2003, 374, 53-58.	2.6	173
6	Growth process of vertically aligned single-walled carbon nanotubes. <i>Chemical Physics Letters</i> , 2005, 403, 320-323.	2.6	172
7	Morphology and chemical state of Co/Mo catalysts for growth of single-walled carbon nanotubes vertically aligned on quartz substrates. <i>Journal of Catalysis</i> , 2004, 225, 230-239.	6.2	133
8	Growth dynamics of vertically aligned single-walled carbon nanotubes from in situ measurements. <i>Carbon</i> , 2008, 46, 923-930.	10.3	116
9	Chirality-dependent environmental effects in photoluminescence of single-walled carbon nanotubes. <i>Physical Review B</i> , 2006, 73, .	3.2	111
10	Exciton Diffusion in Air-Suspended Single-Walled Carbon Nanotubes. <i>Physical Review Letters</i> , 2010, 104, 247402.	7.8	94
11	A simple combinatorial method to discover Co-Mo binary catalysts that grow vertically aligned single-walled carbon nanotubes. <i>Carbon</i> , 2006, 44, 1414-1419.	10.3	86
12	Excitonic transition energies in single-walled carbon nanotubes: Dependence on environmental dielectric constant. <i>Physica Status Solidi (B): Basic Research</i> , 2007, 244, 4002-4005.	1.5	84
13	Polarization dependent optical absorption properties of single-walled carbon nanotubes and methodology for the evaluation of their morphology. <i>Carbon</i> , 2005, 43, 2664-2676.	10.3	83
14	Cold wall CVD generation of single-walled carbon nanotubes and in situ Raman scattering measurements of the growth stage. <i>Chemical Physics Letters</i> , 2004, 386, 89-94.	2.6	82
15	Exciton dephasing and multiexciton recombinations in a single carbon nanotube. <i>Physical Review B</i> , 2008, 77, .	3.2	78
16	Nonlinear Photoluminescence Excitation Spectroscopy of Carbon Nanotubes: Exploring the Upper Density Limit of One-Dimensional Excitons. <i>Physical Review Letters</i> , 2009, 102, 037401.	7.8	70
17	Temperature Dependence of Raman Scattering from Single-Walled Carbon Nanotubes: Undefined Radial Breathing Mode Peaks at High Temperatures. <i>Japanese Journal of Applied Physics</i> , 2008, 47, 2010.	1.5	58
18	Optical characterization of single-walled carbon nanotubes synthesized by catalytic decomposition of alcohol. <i>New Journal of Physics</i> , 2003, 5, 149-149.	2.9	57

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19	Single-walled carbon nanotubes catalytically grown from mesoporous silica thin film. <i>Chemical Physics Letters</i> , 2003, 375, 393-398.	2.6	56
20	Detachment of vertically aligned single-walled carbon nanotube films from substrates and their re-attachment to arbitrary surfaces. <i>Chemical Physics Letters</i> , 2006, 422, 575-580.	2.6	54
21	Diameter Modulation of Vertically Aligned Single-Walled Carbon Nanotubes. <i>ACS Nano</i> , 2012, 6, 7472-7479.	14.6	52
22	Photoluminescence sidebands of carbon nanotubes below the bright singlet excitonic levels. <i>Physical Review B</i> , 2009, 79, .	3.2	51
23	Combinatorial method to prepare metal nanoparticles that catalyze the growth of single-walled carbon nanotubes. <i>Applied Physics Letters</i> , 2005, 86, 173106.	3.3	49
24	Controllable Expansion of Single-Walled Carbon Nanotube Dispersions Using Density Gradient Ultracentrifugation. <i>Journal of Physical Chemistry C</i> , 2010, 114, 4831-4834.	3.1	49
25	Diameter dependence of exciton-phonon interaction in individual single-walled carbon nanotubes studied by microphotoluminescence spectroscopy. <i>Physical Review B</i> , 2006, 73, .	3.2	42
26	Photochemical photon upconverters with ionic liquids. <i>Chemical Physics Letters</i> , 2011, 516, 56-61.	2.6	41
27	Kinetics of photon upconversion by triplet-triplet annihilation: a comprehensive tutorial. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 18268-18282.	2.8	37
28	Purification and characterization of zeolite-supported single-walled carbon nanotubes catalytically synthesized from ethanol. <i>Chemical Physics Letters</i> , 2004, 392, 529-532.	2.6	36
29	Synthesis of single-walled carbon nanotubes with narrow diameter-distribution from fullerene. <i>Chemical Physics Letters</i> , 2003, 375, 553-559.	2.6	35
30	Optical Extinction Spectra of Silicon Nanocrystals: Size Dependence upon the Lowest Direct Transition. <i>Langmuir</i> , 2013, 29, 1802-1807.	3.5	32
31	Direct Synthesis of Single-Walled Carbon Nanotubes on Silicon and Quartz-Based Systems. <i>Japanese Journal of Applied Physics</i> , 2004, 43, 1221-1226.	1.5	31
32	Polarization dependence of resonant Raman scattering from vertically aligned single-walled carbon nanotube films. <i>Physical Review B</i> , 2005, 71, .	3.2	31
33	High-Precision Selective Deposition of Catalyst for Facile Localized Growth of Single-Walled Carbon Nanotubes. <i>Journal of the American Chemical Society</i> , 2009, 131, 10344-10345.	13.7	30
34	Generation of Single-Walled Carbon Nanotubes from Alcohol and Generation Mechanism by Molecular Dynamics Simulations. <i>Journal of Nanoscience and Nanotechnology</i> , 2004, 4, 360-367.	0.9	28
35	Exciton fine structure in a single carbon nanotube revealed through spectral diffusion. <i>Physical Review B</i> , 2008, 77, .	3.2	28
36	Existence of an upper limit on the density of excitons in carbon nanotubes by diffusion-limited exciton-exciton annihilation: Experiment and theory. <i>Physical Review B</i> , 2009, 80, .	3.2	28

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37	An Analytical System for Single Nanomaterials: Combination of Capillary Electrophoresis with Raman Spectroscopy or with Scanning Probe Microscopy for Individual Single-Walled Carbon Nanotube Analysis. <i>Analytical Chemistry</i> , 2009, 81, 7336-7341.	6.5	28
38	Transparent and Nonflammable Ionogel Photon Upconverters and Their Solute Transport Properties. <i>Journal of Physical Chemistry B</i> , 2016, 120, 748-755.	2.6	28
39	Kinetics of Photon Upconversion in Ionic Liquids: Energy Transfer between Sensitizer and Emitter Molecules. <i>Journal of Physical Chemistry B</i> , 2013, 117, 2487-2494.	2.6	27
40	Triplet-sensitized photon upconversion in deep eutectic solvents. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 30603-30615.	2.8	27
41	Kinetics of Photon Upconversion in Ionic Liquids: Time-Resolved Analysis of Delayed Fluorescence. <i>Journal of Physical Chemistry B</i> , 2013, 117, 5180-5187.	2.6	26
42	Mode-Locked Fiber Lasers Using Adjustable Saturable Absorption in Vertically Aligned Carbon Nanotubes. <i>Japanese Journal of Applied Physics</i> , 2006, 45, L17-L19.	1.5	25
43	Growth of single-walled carbon nanotubes from size-selected catalytic metal particles. <i>Applied Physics A: Materials Science and Processing</i> , 2004, 79, 787-790.	2.3	24
44	Visible-to-ultraviolet ($\leq 340\text{ nm}$) photon upconversion by triplet-triplet annihilation in solvents. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 27134-27143.	2.8	24
45	Ionic Liquid Dependence of Triplet-Sensitized Photon Upconversion. <i>Journal of Physical Chemistry B</i> , 2014, 118, 14442-14451.	2.6	21
46	Zeolite Surface As a Catalyst Support Material for Synthesis of Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2011, 115, 24231-24237.	3.1	19
47	Effect of dielectric environment on the ultraviolet optical absorption of single-walled carbon nanotubes. <i>Physical Review B</i> , 2009, 79, .	3.2	18
48	Polarization dependence of radial breathing mode peaks in resonant Raman spectra of vertically aligned single-walled carbon nanotubes. <i>Physical Review B</i> , 2010, 81, .	3.2	17
49	Aharonov-Bohm exciton splitting in the optical absorption of chiral-specific single-walled carbon nanotubes in magnetic fields up to 78 T. <i>Physical Review B</i> , 2011, 83, .	3.2	17
50	van der Waals solid solution crystals for highly efficient in-air photon upconversion under subsolar irradiance. <i>Materials Horizons</i> , 2021, 8, 3449-3456.	12.2	17
51	Synthesis of carbon nanotube peapods directly on Si substrates. <i>Applied Physics Letters</i> , 2005, 86, 023109.	3.3	15
52	Anisotropic decay dynamics of photoexcited aligned carbon nanotube bundles. <i>Physical Review B</i> , 2007, 75, .	3.2	14
53	Parametric Study of Alcohol Catalytic Chemical Vapor Deposition for Controlled Synthesis of Vertically Aligned Single-Walled Carbon Nanotubes. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 3901-3906.	0.9	14
54	Integration of thermo-electrochemical conversion into forced convection cooling. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 25838-25848.	2.8	13

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55	Thermogalvanic energy harvesting from forced convection cooling of 100–200 Å°C surfaces generating high power density. <i>Sustainable Energy and Fuels</i> , 2021, 5, 5967-5974.	4.9	13
56	Surfactant-Stabilized Single-Walled Carbon Nanotubes Using Triphenylene Derivatives Remain Individually Dispersion in Both Liquid and Dried Solid States. <i>Applied Physics Express</i> , 0, 2, 055501.	2.4	12
57	Synthesis of single-walled carbon nanotubes in mesoporous silica film and their field emission property. <i>Applied Physics A: Materials Science and Processing</i> , 2006, 84, 247-250.	2.3	11
58	Ionic additive strategy to control nucleation and generate larger single crystals of 3D covalent organic frameworks. <i>Chemical Communications</i> , 2021, 57, 6656-6659.	4.1	9
59	Photocurrent Quantum Yield of Semiconducting Carbon Nanotubes: Dependence on Excitation Energy and Exciton Binding Energy. <i>Journal of Physical Chemistry C</i> , 2014, 118, 18059-18063.	3.1	8
60	Parametric Investigation of Viscous Dissipation Effects on Optimized Air Cooling Microchanneled Heat Sinks. <i>Heat Transfer Engineering</i> , 2003, 24, 53-62.	1.9	7
61	Electroabsorption study of index-defined semiconducting carbon nanotubes. <i>EPJ Applied Physics</i> , 2011, 55, 20401.	0.7	6
62	Influence of Zeolite Catalyst Supports on the Synthesis of Single-Walled Carbon Nanotubes: Framework Structures and Si/Al Ratios. <i>Journal of Physical Chemistry C</i> , 2014, 118, 23664-23669.	3.1	6
63	Isotope-induced elastic scattering of optical phonons in individual suspended single-walled carbon nanotubes. <i>Applied Physics Letters</i> , 2011, 99, 093104.	3.3	4
64	Thermal transport properties of an oriented thin film of a paraffinic tripodal triptycene. <i>Japanese Journal of Applied Physics</i> , 2021, 60, 038002.	1.5	3
65	Magneto-Absorption Spectra from Selected Chirality of Single-Walled Carbon Nanotubes. <i>Journal of Low Temperature Physics</i> , 2010, 159, 267-271.	1.4	1
66	Semiconducting carbon nanotubes exciton probed by electroabsorption spectroscopy. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2012, 44, 932-935.	2.7	1
67	PS14 Monte Carlo simulations on the influence of the initial powder structure on sintering behaviour during SOFC anode fabrication. <i>The Proceedings of the Materials and Mechanics Conference, 2014</i> , 2014, _PS14-1_-_PS14-3_.	0.0	0
68	Integration of Thermo-Electrochemical Conversion into Forced Convection Cooling. <i>ECS Meeting Abstracts</i> , 2020, MA2020-01, 128-128.	0.0	0