

# Yoichi Murakami

## List of Publications by Citations

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66

papers

3,394

citations

29

h-index

58

g-index

68

ext. papers

3,604

ext. citations

4.1

avg, IF

5.04

L-index

#	Paper	IF	Citations
66	Growth of vertically aligned single-walled carbon nanotube films on quartz substrates and their optical anisotropy. <i>Chemical Physics Letters</i> , <b>2004</b> , 385, 298-303	2.5	474
65	Fluorescence spectroscopy of single-walled carbon nanotubes synthesized from alcohol. <i>Chemical Physics Letters</i> , <b>2004</b> , 387, 198-203	2.5	281
64	Polarization dependence of the optical absorption of single-walled carbon nanotubes. <i>Physical Review Letters</i> , <b>2005</b> , 94, 087402	7.4	216
63	Direct synthesis of high-quality single-walled carbon nanotubes on silicon and quartz substrates. <i>Chemical Physics Letters</i> , <b>2003</b> , 377, 49-54	2.5	183
62	Characterization of single-walled carbon nanotubes catalytically synthesized from alcohol. <i>Chemical Physics Letters</i> , <b>2003</b> , 374, 53-58	2.5	158
61	Growth process of vertically aligned single-walled carbon nanotubes. <i>Chemical Physics Letters</i> , <b>2005</b> , 403, 320-323	2.5	156
60	Morphology and chemical state of CoMo catalysts for growth of single-walled carbon nanotubes vertically aligned on quartz substrates. <i>Journal of Catalysis</i> , <b>2004</b> , 225, 230-239	7.3	124
59	Growth dynamics of vertically aligned single-walled carbon nanotubes from in situ measurements. <i>Carbon</i> , <b>2008</b> , 46, 923-930	10.4	105
58	Chirality-dependent environmental effects in photoluminescence of single-walled carbon nanotubes. <i>Physical Review B</i> , <b>2006</b> , 73,	3.3	104
57	Exciton diffusion in air-suspended single-walled carbon nanotubes. <i>Physical Review Letters</i> , <b>2010</b> , 104, 247402	7.4	84
56	A simple combinatorial method to discover CoMo binary catalysts that grow vertically aligned single-walled carbon nanotubes. <i>Carbon</i> , <b>2006</b> , 44, 1414-1419	10.4	81
55	Cold wall CVD generation of single-walled carbon nanotubes and in situ Raman scattering measurements of the growth stage. <i>Chemical Physics Letters</i> , <b>2004</b> , 386, 89-94	2.5	77
54	Excitonic transition energies in single-walled carbon nanotubes: Dependence on environmental dielectric constant. <i>Physica Status Solidi (B): Basic Research</i> , <b>2007</b> , 244, 4002-4005	1.3	74
53	Exciton dephasing and multiexciton recombinations in a single carbon nanotube. <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	73
52	Polarization dependent optical absorption properties of single-walled carbon nanotubes and methodology for the evaluation of their morphology. <i>Carbon</i> , <b>2005</b> , 43, 2664-2676	10.4	71
51	Nonlinear photoluminescence excitation spectroscopy of carbon nanotubes: exploring the upper density limit of one-dimensional excitons. <i>Physical Review Letters</i> , <b>2009</b> , 102, 037401	7.4	63
50	Optical characterization of single-walled carbon nanotubes synthesized by catalytic decomposition of alcohol. <i>New Journal of Physics</i> , <b>2003</b> , 5, 149-149	2.9	53

49	Detachment of vertically aligned single-walled carbon nanotube films from substrates and their re-attachment to arbitrary surfaces. <i>Chemical Physics Letters</i> , <b>2006</b> , 422, 575-580	2.5	51
48	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> , <b>2008</b> , 47, 2010-2015	1.4	49
47	Diameter modulation of vertically aligned single-walled carbon nanotubes. <i>ACS Nano</i> , <b>2012</b> , 6, 7472-9	16.7	48
46	Single-walled carbon nanotubes catalytically grown from mesoporous silica thin film. <i>Chemical Physics Letters</i> , <b>2003</b> , 375, 393-398	2.5	47
45	Photoluminescence sidebands of carbon nanotubes below the bright singlet excitonic levels. <i>Physical Review B</i> , <b>2009</b> , 79,	3.3	46
44	Combinatorial method to prepare metal nanoparticles that catalyze the growth of single-walled carbon nanotubes. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 173106	3.4	45
43	Controllable Expansion of Single-Walled Carbon Nanotube Dispersions Using Density Gradient Ultracentrifugation. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 4831-4834	3.8	42
42	Diameter dependence of exciton-phonon interaction in individual single-walled carbon nanotubes studied by microphotoluminescence spectroscopy. <i>Physical Review B</i> , <b>2006</b> , 73,	3.3	40
41	Photochemical photon upconverters with ionic liquids. <i>Chemical Physics Letters</i> , <b>2011</b> , 516, 56-61	2.5	37
40	Synthesis of single-walled carbon nanotubes with narrow diameter-distribution from fullerene. <i>Chemical Physics Letters</i> , <b>2003</b> , 375, 553-559	2.5	31
39	Purification and characterization of zeolite-supported single-walled carbon nanotubes catalytically synthesized from ethanol. <i>Chemical Physics Letters</i> , <b>2004</b> , 392, 529-532	2.5	30
38	Polarization dependence of resonant Raman scattering from vertically aligned single-walled carbon nanotube films. <i>Physical Review B</i> , <b>2005</b> , 71,	3.3	30
37	Optical extinction spectra of silicon nanocrystals: size dependence upon the lowest direct transition. <i>Langmuir</i> , <b>2013</b> , 29, 1802-7	4	29
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> , <b>2009</b> , 80,	3.3	28
35	High-precision selective deposition of catalyst for facile localized growth of single-walled carbon nanotubes. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 10344-5	16.4	27
34	Exciton fine structure in a single carbon nanotube revealed through spectral diffusion. <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	27
33	Direct Synthesis of Single-Walled Carbon Nanotubes on Silicon and Quartz-Based Systems. <i>Japanese Journal of Applied Physics</i> , <b>2004</b> , 43, 1221-1226	1.4	26
32	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> , <b>2009</b> , 81, 7336-41	7.8	25

31	Kinetics of photon upconversion in ionic liquids: energy transfer between sensitizer and emitter molecules. <i>Journal of Physical Chemistry B</i> , <b>2013</b> , 117, 2487-94	3-4	24
30	Generation of single-walled carbon nanotubes from alcohol and generation mechanism by molecular dynamics simulations. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2004</b> , 4, 360-7	1-3	24
29	Kinetics of photon upconversion in ionic liquids: time-resolved analysis of delayed fluorescence. <i>Journal of Physical Chemistry B</i> , <b>2013</b> , 117, 5180-7	3-4	23
28	Transparent and Nonflammable Ionogel Photon Upconverters and Their Solute Transport Properties. <i>Journal of Physical Chemistry B</i> , <b>2016</b> , 120, 748-55	3-4	22
27	Triplet-sensitized photon upconversion in deep eutectic solvents. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 30603-30615	3-6	21
26	Ionic liquid dependence of triplet-sensitized photon upconversion. <i>Journal of Physical Chemistry B</i> , <b>2014</b> , 118, 14442-51	3-4	19
25	Effect of dielectric environment on the ultraviolet optical absorption of single-walled carbon nanotubes. <i>Physical Review B</i> , <b>2009</b> , 79,	3-3	18
24	Mode-Locked Fiber Lasers Using Adjustable Saturable Absorption in Vertically Aligned Carbon Nanotubes. <i>Japanese Journal of Applied Physics</i> , <b>2006</b> , 45, L17-L19	1-4	18
23	Growth of single-walled carbon nanotubes from size-selected catalytic metal particles. <i>Applied Physics A: Materials Science and Processing</i> , <b>2004</b> , 79, 787-790	2-6	18
22	Zeolite Surface As a Catalyst Support Material for Synthesis of Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 24231-24237	3-8	17
21	Polarization dependence of radial breathing mode peaks in resonant Raman spectra of vertically aligned single-walled carbon nanotubes. <i>Physical Review B</i> , <b>2010</b> , 81,	3-3	16
20	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> , <b>2011</b> , 83,	3-3	16
19	Anisotropic decay dynamics of photoexcited aligned carbon nanotube bundles. <i>Physical Review B</i> , <b>2007</b> , 75,	3-3	14
18	Kinetics of photon upconversion by triplet-triplet annihilation: a comprehensive tutorial. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 18268-18282	3-6	14
17	Surfactant-Stabilized Single-Walled Carbon Nanotubes Using Triphenylene Derivatives Remain Individually Dispersion in Both Liquid and Dried Solid States. <i>Applied Physics Express</i> , <b>2009</b> , 2, 055501	2-4	12
16	Synthesis of carbon nanotube peapods directly on Si substrates. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 023109	3-4	12
15	Visible-to-ultraviolet (. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 27134-27143	3-6	12
14	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> , <b>2010</b> , 10, 3901-6	1-3	11

13	Synthesis of single-walled carbon nanotubes in mesoporous silica film and their field emission property. <i>Applied Physics A: Materials Science and Processing</i> , <b>2006</b> , 84, 247-250	2.6	11
12	Photocurrent Quantum Yield of Semiconducting Carbon Nanotubes: Dependence on Excitation Energy and Exciton Binding Energy. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 18059-18063	3.8	8
11	Parametric Investigation of Viscous Dissipation Effects on Optimized Air Cooling Microchanneled Heat Sinks. <i>Heat Transfer Engineering</i> , <b>2003</b> , 24, 53-62	1.7	7
10	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> , <b>2014</b> , 118, 23664-23669	3.8	6
9	Electroabsorption study of index-defined semiconducting carbon nanotubes. <i>EPJ Applied Physics</i> , <b>2011</b> , 55, 20401	1.1	5
8	Isotope-induced elastic scattering of optical phonons in individual suspended single-walled carbon nanotubes. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 093104	3.4	4
7	van der Waals solid solution crystals for highly efficient in-air photon upconversion under subsolar irradiance. <i>Materials Horizons</i> , <b>2021</b> , 8, 3449-3456	14.4	3
6	Semiconducting carbon nanotubes exciton probed by electroabsorption spectroscopy. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2012</b> , 44, 932-935	3	1
5	Integration of thermo-electrochemical conversion into forced convection cooling. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 25838-25848	3.6	1
4	Thermal transport properties of an oriented thin film of a paraffinic tripodal triptycene. <i>Japanese Journal of Applied Physics</i> , <b>2021</b> , 60, 038002	1.4	1
3	Ionic additive strategy to control nucleation and generate larger single crystals of 3D covalent organic frameworks. <i>Chemical Communications</i> , <b>2021</b> , 57, 6656-6659	5.8	0
2	Magneto-Absorption Spectra from Selected Chirality of Single-Walled Carbon Nanotubes. <i>Journal of Low Temperature Physics</i> , <b>2010</b> , 159, 267-271	1.3	
1	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</i> , <b>2014</b> , 2014, _PS14-1_-_PS14-3_	0	