List of Publications by Year in descending order

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	94269	2	8224
13,759	37		105
citations	h-index		g-index
127	127		9879
ocs citations	times ranked		citing authors
	13,759 citations 127 ocs citations	13,759 citations 127 ocs citations 127 times ranked	13,759 citations 127 ocs citations 127 times ranked

#	Article	IF	CITATIONS
1	Band Gap Fluorescence from Individual Single-Walled Carbon Nanotubes. Science, 2002, 297, 593-596.	6.0	3,582
2	Structure-Assigned Optical Spectra of Single-Walled Carbon Nanotubes. Science, 2002, 298, 2361-2366.	6.0	2,826
3	Dependence of Optical Transition Energies on Structure for Single-Walled Carbon Nanotubes in Aqueous Suspension:  An Empirical Kataura Plot. Nano Letters, 2003, 3, 1235-1238.	4.5	1,070
4	Narrow (n,m)-Distribution of Single-Walled Carbon Nanotubes Grown Using a Solid Supported Catalyst. Journal of the American Chemical Society, 2003, 125, 11186-11187.	6.6	807
5	Near-Infrared Fluorescence Microscopy of Single-Walled Carbon Nanotubes in Phagocytic Cells. Journal of the American Chemical Society, 2004, 126, 15638-15639.	6.6	792
6	Advanced sorting of single-walled carbon nanotubes by nonlinear density-gradient ultracentrifugation. Nature Nanotechnology, 2010, 5, 443-450.	15.6	527
7	Oxygen Doping Modifies Near-Infrared Band Gaps in Fluorescent Single-Walled Carbon Nanotubes. Science, 2010, 330, 1656-1659.	6.0	323
8	Femtosecond Spectroscopy of Optical Excitations in Single-Walled Carbon Nanotubes: Evidence for Exciton-Exciton Annihilation. Physical Review Letters, 2005, 94, 157402.	2.9	214
9	Solubilization and Purification of Single-Wall Carbon Nanotubes in Water by in Situ Radical Polymerization of Sodium 4-Styrenesulfonate. Macromolecules, 2004, 37, 3965-3967.	2.2	209
10	Ultrafast carrier dynamics in single-walled carbon nanotubes probed by femtosecond spectroscopy. Journal of Chemical Physics, 2004, 120, 3368-3373.	1.2	186
11	Structure-Dependent Fluorescence Efficiencies of Individual Single-Walled Carbon Nanotubes. Nano Letters, 2007, 7, 3080-3085.	4.5	156
12	Analyzing Absorption Backgrounds in Single-Walled Carbon Nanotube Spectra. ACS Nano, 2011, 5, 1639-1648.	7.3	142
13	Versatile Visualization of Individual Single-Walled Carbon Nanotubes with Near-Infrared Fluorescence Microscopy. Nano Letters, 2005, 5, 975-979.	4.5	140
14	Solvent and Temperature Effects on Dual Fluorescence in a Series of Carotenes. Energy Gap Dependence of the Internal Conversion Rate. The Journal of Physical Chemistry, 1995, 99, 16199-16209.	2.9	130
15	Exciton Binding Energy in Semiconducting Single-Walled Carbon Nanotubes. Journal of Physical Chemistry B, 2005, 109, 15671-15674.	1.2	110
16	C60O3, a Fullerene Ozonide:Â Synthesis and Dissociation to C60O and O2. Journal of the American Chemical Society, 2000, 122, 11473-11479.	6.6	107
17	Directly Measured Optical Absorption Cross Sections for Structure-Selected Single-Walled Carbon Nanotubes. Nano Letters, 2014, 14, 1530-1536.	4.5	96
18	Reversible Formation of Ammonium Persulfate/Sulfuric Acid Graphite Intercalation Compounds and Their Peculiar Raman Spectra. ACS Nano, 2012, 6, 7842-7849.	7.3	95

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19	Synthesis and Characterization of the "Missing―Oxide of C60: [5,6]-Open C60O. Journal of the American Chemical Society, 2001, 123, 9720-9721.	6.6	91
20	Surfactant-Dependent Exciton Mobility in Single-Walled Carbon Nanotubes Studied by Single-Molecule Reactions. Nano Letters, 2010, 10, 1595-1599.	4.5	88
21	Fluorescence spectroscopy of single-walled carbon nanotubes in aqueous suspension. Applied Physics A: Materials Science and Processing, 2004, 78, 1111-1116.	1.1	86
22	Determination of Triplet Quantum Yields from Tripletâ^'Triplet Annihilation Fluorescence. Journal of Physical Chemistry A, 2000, 104, 7711-7714.	1.1	83
23	Efficient photosensitized energy transfer and near-IR fluorescence from porphyrin–SWNT complexes. Journal of Materials Chemistry, 2008, 18, 1510.	6.7	70
24	S2 → S0 fluorescence and transient Sn ↕S1 absorption of all-rans-β-carotene in solid and liquid solutions. Journal of Photochemistry and Photobiology A: Chemistry, 1989, 46, 315-322.	2.0	68
25	Ozonides, Epoxides, and Oxidoannulenes of C70. Journal of the American Chemical Society, 2002, 124, 6317-6323.	6.6	66
26	Creating fluorescent quantum defects in carbon nanotubes using hypochlorite and light. Nature Communications, 2019, 10, 2874.	5.8	63
27	Determination of Exciton-Phonon Coupling Elements in Single-Walled Carbon Nanotubes by Raman Overtone Analysis. Physical Review Letters, 2007, 98, 037405.	2.9	61
28	Strain Measurements on Individual Single-Walled Carbon Nanotubes in a Polymer Host: Structure-Dependent Spectral Shifts and Load Transfer. Nano Letters, 2008, 8, 826-831.	4.5	59
29	Translational and Rotational Dynamics of Individual Single-Walled Carbon Nanotubes in Aqueous Suspension. ACS Nano, 2008, 2, 1770-1776.	7.3	58
30	(<i>n</i> , <i>m</i>)-Specific Absorption Cross Sections of Single-Walled Carbon Nanotubes Measured by Variance Spectroscopy. Nano Letters, 2016, 16, 6903-6909.	4.5	57
31	Excited state energies and internal conversion in diphenylpolyenes: from diphenylbutadiene to diphenyltetradecaheptaene. Chemical Physics Letters, 1998, 283, 235-242.	1.2	51
32	Measuring Single-Walled Carbon Nanotube Length Distributions from Diffusional Trajectories. ACS Nano, 2012, 6, 8424-8431.	7.3	51
33	Strain Paint: Noncontact Strain Measurement Using Single-Walled Carbon Nanotube Composite Coatings. Nano Letters, 2012, 12, 3497-3500.	4.5	51
34	Unusual dynamic relaxation of triplet-excited meso-phenyl-substituted porphyrins and their chemical dimers at room temperatures. Chemical Physics Letters, 1998, 297, 97-108.	1.2	50
35	Structure-Dependent Hydrostatic Deformation Potentials of Individual Single-Walled Carbon Nanotubes. Physical Review Letters, 2004, 93,	2.9	49
36	Do Inner Shells of Double-Walled Carbon Nanotubes Fluoresce?. Nano Letters, 2009, 9, 3282-3289.	4.5	42

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37	Controlled Patterning of Carbon Nanotube Energy Levels by Covalent DNA Functionalization. ACS Nano, 2019, 13, 8222-8228.	7.3	42
38	Curvature effects on the <mml:math <br="" xmlns:mml="http://www.w3.org/1998/Math/MathML">display="inline"><mml:msub><mml:mi>E</mml:mi><mml:mn>33</mml:mn></mml:msub></mml:math> and <mm xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>E</mml:mi><mml:mn>44</mml:mn></mml:msub>exciton trapsitions in semiconducting single-walled carbon panotubes. Physical Review B, 2008, 77</mm 	l:math 1.1	39
39	Dependence of Exciton Mobility on Structure in Single-Walled Carbon Nanotubes. Journal of Physical Chemistry Letters, 2010, 1, 2189-2192.	2.1	37
40	Efficient Spectrofluorimetric Analysis of Single-Walled Carbon Nanotube Samples. Analytical Chemistry, 2011, 83, 7431-7437.	3.2	36
41	Quenching of Single-Walled Carbon Nanotube Fluorescence by Dissolved Oxygen Reveals Selective Single-Stranded DNA Affinities. Journal of Physical Chemistry Letters, 2017, 8, 1952-1955.	2.1	35
42	Time-Resolved Thermally Activated Delayed Fluorescence in C70and 1,2-C70H2. Journal of Physical Chemistry A, 2000, 104, 11265-11269.	1.1	34
43	Photoexcited Aromatic Reactants Give Multicolor Carbon Nanotube Fluorescence from Quantum Defects. ACS Nano, 2020, 14, 715-723.	7.3	32
44	β-carotene triplet state absorption in the near-IR range. Journal of Photochemistry and Photobiology A: Chemistry, 1995, 91, 111-115.	2.0	31
45	Chirality-Resolved Length Analysis of Single-Walled Carbon Nanotube Samples through Shear-Aligned Photoluminescence Anisotropy. ACS Nano, 2008, 2, 1738-1746.	7.3	31
46	Self-assembled nanoscale photomimetic models: structure and related dynamics. Chemical Physics, 2002, 275, 185-209.	0.9	27
47	Full-field, high-spatial-resolution detection of local structural damage from low-resolution random strain field measurements. Journal of Sound and Vibration, 2017, 399, 75-85.	2.1	27
48	Carbon nanotubes as non-contact optical strain sensors in smart skins. Journal of Strain Analysis for Engineering Design, 2015, 50, 505-512.	1.0	25
49	Efficient low temperature charge transfer in a self-assembled porphyrin aggregate. Journal of Photochemistry and Photobiology A: Chemistry, 1999, 126, 99-109.	2.0	24
50	Enabling <i>in vivo</i> measurements of nanoparticle concentrations with threeâ€dimensional optoacoustic tomography. Journal of Biophotonics, 2014, 7, 581-588.	1.1	24
51	Photoluminescence Side Band Spectroscopy of Individual Single-Walled Carbon Nanotubes. Journal of Physical Chemistry C, 2016, 120, 23898-23904.	1.5	24
52	Enantiomers of Single-Wall Carbon Nanotubes Show Distinct Coating Displacement Kinetics. Journal of Physical Chemistry Letters, 2018, 9, 3793-3797.	2.1	24
53	The purification of HiPco SWCNTs with liquid bromine at room temperature. Carbon, 2007, 45, 1013-1017.	5.4	23
54	Electric Field Quenching of Carbon Nanotube Photoluminescence. Nano Letters, 2008, 8, 1527-1531.	4.5	23

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55	Length-dependent optical properties of single-walled carbon nanotube samples. Chemical Physics, 2013, 422, 255-263.	0.9	23
56	Pathways for photoinduced electron transfer in meso-nitro-phenyl-octaethylporphyrins and their chemical dimers. Chemical Physics Letters, 1999, 304, 155-166.	1.2	22
57	Quantum Light Emission from Coupled Defect States in DNA-Functionalized Carbon Nanotubes. ACS Nano, 2021, 15, 10406-10414.	7.3	22
58	Solvent effect on radiative and non-radiative transitions in all-trans-1,6-diphenylhexatriene. Journal of Photochemistry and Photobiology A: Chemistry, 1991, 59, 273-283.	2.0	21
59	Spectral shape of diphenylpolyene fluorescence and mixing of the S1 and S2 states. Chemical Physics, 1998, 229, 75-91.	0.9	21
60	Reversible Dimerization of [5,6]-C60O. Journal of the American Chemical Society, 2004, 126, 7350-7358.	6.6	21
61	Spectral triangulation: a 3D method for locating single-walled carbon nanotubes in vivo. Nanoscale, 2016, 8, 10348-10357.	2.8	20
62	Manifestation of nonplanarity effects and charge-transfer interactions in spectral and kinetic properties of triplet states of sterically strained octaethylporphyrins. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2001, 90, 67-77.	0.2	19
63	Fluorescence properties of protonated and unprotonated Schiff bases of retinal at room temperature. Journal of Photochemistry and Photobiology B: Biology, 1996, 34, 39-46.	1.7	18
64	Triplet State Dissociation of C120, the Dimer of C60. Journal of Physical Chemistry A, 2001, 105, 9845-9850.	1.1	18
65	Title is missing!. Journal of Fluorescence, 2000, 10, 55-68.	1.3	17
66	Comparative Photophysics of C61H2Isomersâ€. Journal of Physical Chemistry A, 2003, 107, 10674-10679.	1.1	17
67	Evidence for Long-lived, Optically Generated Quenchers of Excitons in Single-Walled Carbon Nanotubes. Nano Letters, 2012, 12, 33-38.	4.5	16
68	Removing Aggregates from Single-Walled Carbon Nanotube Samples by Magnetic Purification. Journal of Physical Chemistry C, 2014, 118, 4489-4494.	1.5	16
69	Structure-Dependent Thermal Defunctionalization of Single-Walled Carbon Nanotubes. ACS Nano, 2015, 9, 6324-6332.	7.3	16
70	Toward Practical Non-Contact Optical Strain Sensing Using Single-Walled Carbon Nanotubes. ECS Journal of Solid State Science and Technology, 2016, 5, M3012-M3017.	0.9	16
71	Dualâ€layer nanotubeâ€based smart skin for enhanced noncontact strain sensing. Structural Control and Health Monitoring, 2019, 26, e2279.	1.9	15
72	Dye Quenching of Carbon Nanotube Fluorescence Reveals Structure-Selective Coating Coverage. ACS Nano, 2020, 14, 12148-12158.	7.3	15

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73	Delayed Fluorescence from Carbon Nanotubes through Singlet Oxygen-Sensitized Triplet Excitons. Journal of the American Chemical Society, 2020, 142, 21189-21196.	6.6	14
74	Fluorescence of Retinal Schiff Base in Alcohols. Journal of Physical Chemistry A, 1999, 103, 2481-2488.	1.1	13
75	Temperature effects on femtosecond transient absorption kinetics of semiconducting single-walled carbon nanotubes. Physical Chemistry Chemical Physics, 2006, 8, 5689.	1.3	13
76	Variance Spectroscopy. Journal of Physical Chemistry Letters, 2015, 6, 3976-3981.	2.1	13
77	Diphenyloctatetraene S2 emission. Chemical Physics Letters, 1994, 218, 557-562.	1.2	12
78	Indexing the Quality of Single-Wall Carbon Nanotube Dispersions Using Absorption Spectra. Journal of Physical Chemistry C, 2018, 122, 4681-4690.	1.5	12
79	Noncontact Strain Mapping Using Laser-Induced Fluorescence from Nanotube-Based Smart Skin. Journal of Structural Engineering, 2019, 145, 04018238.	1.7	11
80	Photoinduced electron transfer in meso-nitrophenyl-substituted porphyrins and their chemical dimers. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2000, 88, 205-216.	0.2	10
81	Competition between electron transfer and energy migration in self-assembled porphyrin triads. Materials Science and Engineering C, 2001, 18, 99-111.	3.8	9
82	Thermolysis and Photolysis of C60Diozonides. Fullerenes Nanotubes and Carbon Nanostructures, 2005, 13, 73-88.	1.0	9
83	High Precision Fractionator for Use with Density Gradient Ultracentrifugation. Analytical Chemistry, 2014, 86, 11018-11023.	3.2	8
84	Guanine-Specific Chemical Reaction Reveals ssDNA Interactions on Carbon Nanotube Surfaces. Journal of Physical Chemistry Letters, 2022, 13, 2231-2236.	2.1	8
85	Photophysical Studies of 1,2-C70H2. Journal of Physical Chemistry A, 1999, 103, 10842-10845.	1.1	7
86	THE ELUSIVE C60S: THREE ATTEMPTED SYNTHESES. Fullerenes Nanotubes and Carbon Nanostructures, 2002, 10, 37-47.	1.0	7
87	Intense Photoluminescence from Mixed Solutions of C70and Palladium Octaethylporphyrin:Â A Supramolecular Heavy Atom Effect. Journal of Physical Chemistry A, 2006, 110, 10731-10736.	1.1	7
88	Near-infrared photoluminescence of Portland cement. Scientific Reports, 2022, 12, 1197.	1.6	7
89	Pressure dependence of optical transitions in semiconducting single-walled carbon nanotubes. Physica Status Solidi (B): Basic Research, 2004, 241, 3367-3373.	0.7	6
90	Structure-dependent Optical Activity of Single-walled Carbon Nanotube Enantiomers. Fullerenes Nanotubes and Carbon Nanostructures, 2014, 22, 269-279.	1.0	6

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91	Next-generation 2D optical strain mapping with strain-sensing smart skin compared to digital image correlation. Scientific Reports, 2022, 12, .	1.6	6
92	Electron Transfer in Porphyrin Multimolecular Self-Organized Nanostructures. Molecular Crystals and Liquid Crystals, 1998, 324, 169-176.	0.3	5
93	The Influence of Ir and Pt Addition on the Synthesis of Fullerenes at Atmospheric Pressure. Fullerenes Nanotubes and Carbon Nanostructures, 2003, 11, 371-382.	1.0	4
94	Chromatic Aberration Short-Wave Infrared Spectroscopy: Nanoparticle Spectra without a Spectrometer. Analytical Chemistry, 2013, 85, 1337-1341.	3.2	4
95	"Smart Skin" optical strain sensor using single wall carbon nanotubes. , 2014, , .		4
96	Assessing Inhomogeneity in Sorted Samples of Single-Walled Carbon Nanotubes through Fluorescence and Variance Spectroscopy. ECS Journal of Solid State Science and Technology, 2017, 6, M3097-M3102.	0.9	4
97	Skewness Analysis in Variance Spectroscopy Measures Nanoparticle Individualization. Journal of Physical Chemistry Letters, 2017, 8, 2924-2929.	2.1	4
98	Variance Spectroscopy Studies of Single-Wall Carbon Nanotube Aggregation. Journal of Physical Chemistry C, 2018, 122, 26251-26259.	1.5	4
99	Tailoring the Properties of Single-Wall Carbon Nanotube Samples through Structure-Selective Near-Infrared Photochemistry. Journal of Physical Chemistry Letters, 2020, 11, 6492-6497.	2.1	4
100	Photophysical Properties of C84Major Isomersâ€. Journal of Physical Chemistry C, 2007, 111, 17720-17724.	1.5	3
101	Picosecond kinetics and S n < S 1 absorption spectra of retinoids and carotenoids. , 1991, , .		2
102	(n,m)-Assigned Absorption and Emission Spectra of Single-Walled Carbon Nanotubes. AIP Conference Proceedings, 2003, , .	0.3	2
103	Photorearrangement of α-Azoxy Ketones and Triplet Sensitization of Azoxy Compounds. Journal of Organic Chemistry, 2005, 70, 2598-2605.	1.7	2
104	Towards non-invasivein vivomeasurements of nanoparticle concentrations using 3D optoacoustic tomography. , 2013, , .		2
105	Strain-sensing smart skin. , 2016, , 353-375.		2
106	Synchro-Excited Free-Running Single Photon Counting: A Novel Method for Measuring Short-Wave Infrared Emission Kinetics. Analytical Chemistry, 2019, 91, 12484-12491.	3.2	2
107	<title>Beta-carotene S<formula><inf><roman>1</roman></inf></formula> fluorescence</title> . , 1995, 2370, 719.		1
108	Steric Interactions Influence on Electron Transfer Efficiency in Meso-Nitrophenylporphyrins and their Chemical Dimers. Molecular Crystals and Liquid Crystals, 2001, 361, 77-82.	0.3	1

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109	Raman studies of electron–phonon coupling in single walled carbon nanotubes. Physica Status Solidi (B): Basic Research, 2006, 243, 3171-3175.	0.7	1
110	Time-resolved laser study of the transient absorption and conductivity on iodine-doped \hat{l}^2 -carotene films. , 1993, , .		1
111	(Invited) Progress in Using Carbon Nanotube Spectra for Mechanical Strain Sensing. ECS Meeting Abstracts, 2021, MA2021-01, 568-568.	0.0	Ο
112	(Invited) Computational Simulations of Selective Interactions between ssDNA and SWCNTs. ECS Meeting Abstracts, 2021, MA2021-01, 582-582.	0.0	0
113	(Invited) Quantum Light Emission from Coupled Defect-States in DNA-Functionalized Carbon Nanotubes. ECS Meeting Abstracts, 2021, MA2021-01, 559-559.	0.0	Ο
114	(Invited) Different Pathways of Fluorescent SWCNT Modifications with Aromatic Reactants. ECS Meeting Abstracts, 2021, MA2021-01, 557-557.	0.0	0
115	Tailoring the Spectral Properties of Single-Wall Carbon Nanotube Samples through Structure-Selective Photochemistry. ECS Meeting Abstracts, 2021, MA2021-01, 588-588.	0.0	Ο
116	(Invited) Toward Spectral Homogeneity in Guanine Functionalized SWCNTs. ECS Meeting Abstracts, 2021, MA2021-01, 552-552.	0.0	0
117	(Invited) Spectroscopic Titration Shows (n,m)-Dependent Displacement of SDS By ssDNA on Single-Wall Carbon Nanotubes. ECS Meeting Abstracts, 2021, MA2021-01, 543-543.	0.0	Ο
118	(Invited) Camera-Based Strain Visualization Using Carbon Nanotube Fluorescence. ECS Meeting Abstracts, 2022, MA2022-01, 754-754.	0.0	0
119	Exploring the Role of Photosensitizer in Guanine Functionalization of Single-Wall Carbon Nanotubes. ECS Meeting Abstracts, 2022, MA2022-01, 732-732.	0.0	Ο
120	(Digital Presentation) Realistic Molecular Dynamics Modeling of ssDNA/SWCNT Hybrids. ECS Meeting Abstracts, 2022, MA2022-01, 715-715.	0.0	0
121	DNA Wrapping Causes Strain in Single-Wall Carbon Nanotubes. ECS Meeting Abstracts, 2022, MA2022-01, 719-719.	0.0	Ο
122	Exploring the Covalent Doping of Single-Wall Carbon Nanotubes Induced By Photoexcited Hypochlorite. ECS Meeting Abstracts, 2022, MA2022-01, 733-733.	0.0	0