

Christophe Voisin

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35
papers

1,159
citations

19
h-index

34
g-index

52
ext. papers

1,285
ext. citations

7.4
avg, IF

3.82
L-index

#	Paper	IF	Citations
35	Unconventional motional narrowing in the optical spectrum of a semiconductor quantum dot. <i>Nature Physics</i> , 2006 , 2, 759-764	16.2	171
34	Carbon nanotubes as emerging quantum-light sources. <i>Nature Materials</i> , 2018 , 17, 663-670	27	134
33	Ultra-coherent single photon source. <i>Applied Physics Letters</i> , 2011 , 99, 261904	3.4	72
32	Temperature dependence of exciton recombination in semiconducting single-wall carbon nanotubes. <i>Nano Letters</i> , 2007 , 7, 398-402	11.5	68
31	Widely Tunable Single-Photon Source from a Carbon Nanotube in the Purcell Regime. <i>Physical Review Letters</i> , 2016 , 116, 247402	7.4	63
30	Pi-stacking functionalization of carbon nanotubes through micelle swelling. <i>ChemPhysChem</i> , 2010 , 11, 1667-72	3.2	60
29	Single photon emission from graphene quantum dots at room temperature. <i>Nature Communications</i> , 2018 , 9, 3470	17.4	53
28	Excitons and high-order optical transitions in individual carbon nanotubes: A Rayleigh scattering spectroscopy study. <i>Physical Review B</i> , 2010 , 81,	3.3	52
27	Quantum efficiency of energy transfer in noncovalent carbon nanotube/porphyrin compounds. <i>Applied Physics Letters</i> , 2010 , 97, 141918	3.4	44
26	Efficient acoustic phonon broadening in single self-assembled InAs/GaAs quantum dots. <i>Physical Review B</i> , 2001 , 65,	3.3	37
25	Chirality dependence of the absorption cross section of carbon nanotubes. <i>Physical Review Letters</i> , 2013 , 111, 137402	7.4	35
24	Functionalization of Carbon Nanotubes through Polymerization in Micelles: A Bridge between the Covalent and Noncovalent Methods. <i>Chemistry of Materials</i> , 2013 , 25, 2700-2707	9.6	35
23	Excitation transfer in functionalized carbon nanotubes. <i>ChemPhysChem</i> , 2008 , 9, 1250-3	3.2	35
22	Unifying the low-temperature photoluminescence spectra of carbon nanotubes: the role of acoustic phonon confinement. <i>Physical Review Letters</i> , 2014 , 113, 057402	7.4	33
21	Elastic exciton-exciton scattering in photoexcited carbon nanotubes. <i>Physical Review Letters</i> , 2011 , 107, 127401	7.4	31
20	Optical properties of carbon nanotubes in a composite material: The role of dielectric screening and thermal expansion. <i>Journal of Applied Physics</i> , 2009 , 105, 094323	2.5	31
19	Bandgap photoluminescence of semiconducting single-wall carbon nanotubes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2004 , 21, 1057-1060	3	26

18	Fluorescence from graphene nanoribbons of well-defined structure. <i>Carbon</i> , 2017 , 119, 235-240	10.4	25
17	Local field effects in the energy transfer between a chromophore and a carbon nanotube: a single-nanocompound investigation. <i>ACS Nano</i> , 2012 , 6, 8796-802	16.7	21
16	Monolithic microcavity with carbon nanotubes as active material. <i>Applied Physics Letters</i> , 2013 , 102, 153102	10.4	19
15	Exploiting One-Dimensional Exciton-Phonon Coupling for Tunable and Efficient Single-Photon Generation with a Carbon Nanotube. <i>Nano Letters</i> , 2017 , 17, 4184-4188	11.5	18
14	Diameter-selective non-covalent functionalization of carbon nanotubes with porphyrin monomers. <i>Nanoscale</i> , 2016 , 8, 2326-32	7.7	17
13	Phonon-induced dephasing in single-wall carbon nanotubes. <i>Physical Review B</i> , 2011 , 84,	3.3	14
12	Optical Investigation of On-Surface Synthesized Armchair Graphene Nanoribbons. <i>Physica Status Solidi (B): Basic Research</i> , 2017 , 254, 1700223	1.3	12
11	Strong reduction of exciton-phonon coupling in single-wall carbon nanotubes of high crystalline quality: Insight into broadening mechanisms and exciton localization. <i>Physical Review B</i> , 2015 , 91,	3.3	11
10	Davydov Splitting and Self-Organization in a Porphyrin Layer Noncovalently Attached to Single Wall Carbon Nanotubes. <i>Nano Letters</i> , 2017 , 17, 6778-6782	11.5	8
9	Properties of Functionalized Carbon Nanotubes and Their Interaction with a Metallic Substrate Investigated by Scanning Tunneling Microscopy. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 24264-24271	3.8	7
8	Controlling the kinetics of the non-covalent functionalization of carbon nanotubes using sub-cmc dilutions in a co-surfactant environment. <i>Nanoscale</i> , 2017 , 9, 2646-2651	7.7	6
7	Superlocalization of Excitons in Carbon Nanotubes at Cryogenic Temperature. <i>Nano Letters</i> , 2019 , 19, 7210-7216	11.5	6
6	Single-walled carbon nanotube/polystyrene core-shell hybrids: synthesis and photoluminescence properties. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 4786-4792	7.1	4
5	Vibronic effect and influence of aggregation on the photophysics of graphene quantum dots.. <i>Nanoscale</i> , 2022 ,	7.7	3
4	Interplay of spectral diffusion and phonon-broadening in individual photo-emitters: the case of carbon nanotubes. <i>Nanoscale</i> , 2018 , 10, 683-689	7.7	2
3	Photostability of Single-Walled Carbon Nanotubes/Polymer Core-Shell Hybrids as Telecom Wavelength Emitters. <i>ACS Applied Nano Materials</i> , 2020 , 3, 7291-7296	5.6	1
2	Effect of phonon-bath dimensionality on the spectral tuning of single-photon emitters in the Purcell regime. <i>Physical Review B</i> , 2018 , 97,	3.3	1
1	Vibronic fingerprints in the luminescence of graphene quantum dots at cryogenic temperature.. <i>Journal of Chemical Physics</i> , 2022 , 156, 104302	3.9	0

