

# Christophe Voisin

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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 | Vibronic effect and influence of aggregation on the photophysics of graphene quantum dots.. <i>Nanoscale</i> , <b>2022</b> ,   | 7.7  | 3         |
| 34 | Vibronic fingerprints in the luminescence of graphene quantum dots at cryogenic temperature.. <i>Journal of Chemical Physics</i> , <b>2022</b> , 156, 104302   | 3.9  | 0         |
| 33 | Photostability of Single-Walled Carbon Nanotubes/Polymer CoreShell Hybrids as Telecom Wavelength Emitters. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 7291-7296  | 5.6  | 1         |
| 32 | Superlocalization of Excitons in Carbon Nanotubes at Cryogenic Temperature. <i>Nano Letters</i> , <b>2019</b> , 19, 7210-7216  | 11.5 | 6         |
| 31 | Single-walled carbon nanotube/polystyrene coreShell hybrids: synthesis and photoluminescence properties. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 4786-4792  | 7.1  | 4         |
| 30 | Single photon emission from graphene quantum dots at room temperature. <i>Nature Communications</i> , <b>2018</b> , 9, 3470  | 17.4 | 53        |
| 29 | Carbon nanotubes as emerging quantum-light sources. <i>Nature Materials</i> , <b>2018</b> , 17, 663-670  | 27   | 134       |
| 28 | Interplay of spectral diffusion and phonon-broadening in individual photo-emitters: the case of carbon nanotubes. <i>Nanoscale</i> , <b>2018</b> , 10, 683-689   | 7.7  | 2         |
| 27 | Effect of phonon-bath dimensionality on the spectral tuning of single-photon emitters in the Purcell regime. <i>Physical Review B</i> , <b>2018</b> , 97,  | 3.3  | 1         |
| 26 | Controlling the kinetics of the non-covalent functionalization of carbon nanotubes using sub-cmc dilutions in a co-surfactant environment. <i>Nanoscale</i> , <b>2017</b> , 9, 2646-2651                             | 7.7  | 6         |
| 25 | Fluorescence from graphene nanoribbons of well-defined structure. <i>Carbon</i> , <b>2017</b> , 119, 235-240   | 10.4 | 25        |
| 24 | Exploiting One-Dimensional Exciton-Phonon Coupling for Tunable and Efficient Single-Photon Generation with a Carbon Nanotube. <i>Nano Letters</i> , <b>2017</b> , 17, 4184-4188                                      | 11.5 | 18        |
| 23 | Properties of Functionalized Carbon Nanotubes and Their Interaction with a Metallic Substrate Investigated by Scanning Tunneling Microscopy. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 24264-24271 | 3.8  | 7         |
| 22 | Davydov Splitting and Self-Organization in a Porphyrin Layer Noncovalently Attached to Single Wall Carbon Nanotubes. <i>Nano Letters</i> , <b>2017</b> , 17, 6778-6782   | 11.5 | 8         |
| 21 | Optical Investigation of On-Surface Synthesized Armchair Graphene Nanoribbons. <i>Physica Status Solidi (B): Basic Research</i> , <b>2017</b> , 254, 1700223   | 1.3  | 12        |
| 20 | Widely Tunable Single-Photon Source from a Carbon Nanotube in the Purcell Regime. <i>Physical Review Letters</i> , <b>2016</b> , 116, 247402   | 7.4  | 63        |
| 19 | Diameter-selective non-covalent functionalization of carbon nanotubes with porphyrin monomers. <i>Nanoscale</i> , <b>2016</b> , 8, 2326-32   | 7.7  | 17        |

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| 18 | 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> , <b>2015</b> , 91, | 3.3  | 11  |
| 17 | Unifying the low-temperature photoluminescence spectra of carbon nanotubes: the role of acoustic phonon confinement. <i>Physical Review Letters</i> , <b>2014</b> , 113, 057402                                    | 7.4  | 33  |
| 16 | Chirality dependence of the absorption cross section of carbon nanotubes. <i>Physical Review Letters</i> , <b>2013</b> , 111, 137402   | 7.4  | 35  |
| 15 | Monolithic microcavity with carbon nanotubes as active material. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 153102  | 3.2  | 19  |
| 14 | Functionalization of Carbon Nanotubes through Polymerization in Micelles: A Bridge between the Covalent and Noncovalent Methods. <i>Chemistry of Materials</i> , <b>2013</b> , 25, 2700-2707                       | 9.6  | 35  |
| 13 | Local field effects in the energy transfer between a chromophore and a carbon nanotube: a single-nanocompound investigation. <i>ACS Nano</i> , <b>2012</b> , 6, 8796-802   | 16.7 | 21  |
| 12 | Ultra-coherent single photon source. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 261904   | 3.4  | 72  |
| 11 | Elastic exciton-exciton scattering in photoexcited carbon nanotubes. <i>Physical Review Letters</i> , <b>2011</b> , 107, 127401  | 7.4  | 31  |
| 10 | Phonon-induced dephasing in single-wall carbon nanotubes. <i>Physical Review B</i> , <b>2011</b> , 84,   | 3.3  | 14  |
| 9  | Quantum efficiency of energy transfer in noncovalent carbon nanotube/porphyrin compounds. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 141918  | 3.4  | 44  |
| 8  | Excitons and high-order optical transitions in individual carbon nanotubes: A Rayleigh scattering spectroscopy study. <i>Physical Review B</i> , <b>2010</b> , 81,   | 3.3  | 52  |
| 7  | Pi-stacking functionalization of carbon nanotubes through micelle swelling. <i>ChemPhysChem</i> , <b>2010</b> , 11, 1667-72  | 3.2  | 60  |
| 6  | Optical properties of carbon nanotubes in a composite material: The role of dielectric screening and thermal expansion. <i>Journal of Applied Physics</i> , <b>2009</b> , 105, 094323                              | 2.5  | 31  |
| 5  | Excitation transfer in functionalized carbon nanotubes. <i>ChemPhysChem</i> , <b>2008</b> , 9, 1250-3  | 3.2  | 35  |
| 4  | Temperature dependence of exciton recombination in semiconducting single-wall carbon nanotubes. <i>Nano Letters</i> , <b>2007</b> , 7, 398-402   | 11.5 | 68  |
| 3  | Unconventional motional narrowing in the optical spectrum of a semiconductor quantum dot. <i>Nature Physics</i> , <b>2006</b> , 2, 759-764   | 16.2 | 171 |
| 2  | Bandgap photoluminescence of semiconducting single-wall carbon nanotubes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2004</b> , 21, 1057-1060   | 3    | 26  |
| 1  | Efficient acoustic phonon broadening in single self-assembled InAs/GaAs quantum dots. <i>Physical Review B</i> , <b>2001</b> , 65,   | 3.3  | 37  |

