# Carlos Brites

## List of Publications by Citations

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|---|---|---|---|
| 71 papers | 5,335 citations | 31 h-index | 73 g-index |
| 81 ext. papers | 6,365 ext. citations | 8.2 avg, IF | 6.11 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 71 | Thermometry at the nanoscale. *Nanoscale*, **2012**, 4, 4799-829 | 7.7 | 1001 |
| 70 | A luminescent molecular thermometer for long-term absolute temperature measurements at the nanoscale. *Advanced Materials*, **2010**, 22, 4499-504 | 24 | 359 |
| 69 | Lanthanide-Based Thermometers: At the Cutting-Edge of Luminescence Thermometry. *Advanced Optical Materials*, **2019**, 7, 1801239 | 8.1 | 347 |
| 68 | Lanthanide Organic Framework Luminescent Thermometers. *Chemistry - A European Journal*, **2016**, 22, 14782-14795 | 4.8 | 312 |
| 67 | Ratiometric nanothermometer based on an emissive Ln3+-organic framework. *ACS Nano*, **2013**, 7, 7213-8 | 16.7 | 280 |
| 66 | Lanthanide-based luminescent molecular thermometers. *New Journal of Chemistry*, **2011**, 35, 1177 | 3.6 | 234 |
| 65 | Instantaneous ballistic velocity of suspended Brownian nanocrystals measured by upconversion nanothermometry. *Nature Nanotechnology*, **2016**, 11, 851-856 | 28.7 | 227 |
| 64 | Lanthanide□Organic Framework Nanothermometers Prepared by Spray-Drying. *Advanced Functional Materials*, **2015**, 25, 2824-2830 | 15.6 | 210 |
| 63 | Unveiling in Vivo Subcutaneous Thermal Dynamics by Infrared Luminescent Nanothermometers. *Nano Letters*, **2016**, 16, 1695-703 | 11.5 | 209 |
| 62 | Lanthanides in Luminescent Thermometry. *Fundamental Theories of Physics*, **2016**, 49, 339-427 | 0.8 | 196 |
| 61 | Boosting the sensitivity of Nd(3+)-based luminescent nanothermometers. *Nanoscale*, **2015**, 7, 17261-7 | 7.7 | 172 |
| 60 | Visible-Light Excited Luminescent Thermometer Based on Single Lanthanide Organic Frameworks. *Advanced Functional Materials*, **2016**, 26, 8677-8684 | 15.6 | 143 |
| 59 | Upconverting Nanoparticles Working As Primary Thermometers In Different Media. *Journal of Physical Chemistry C*, **2017**, 121, 13962-13968 | 3.8 | 138 |
| 58 | Joining time-resolved thermometry and magnetic-induced heating in a single nanoparticle unveils intriguing thermal properties. *ACS Nano*, **2015**, 9, 3134-42 | 16.7 | 106 |
| 57 | Widening the Temperature Range of Luminescent Thermometers through the Intra- and Interconfigurational Transitions of Pr3+. *Advanced Optical Materials*, **2018**, 6, 1701318 | 8.1 | 104 |
| 56 | Upconversion thermometry: a new tool to measure the thermal resistance of nanoparticles. *Nanoscale*, **2018**, 10, 6602-6610 | 7.7 | 102 |
| 55 | Ratiometric highly sensitive luminescent nanothermometers working in the room temperature range. Applications to heat propagation in nanofluids. *Nanoscale*, **2013**, 5, 7572-80 | 7.7 | 76 |

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| 54 | A cryogenic luminescent ratiometric thermometer based on a lanthanide phosphonate dimer. *Journal of Materials Chemistry C*, **2015**, 3, 8480-8484 | 7.1 | 67 |
| 53 | White OLED based on a temperature sensitive Eu3+/Tb3+ diketonate complex. *Organic Electronics*, **2014**, 15, 798-808 | 3.5 | 67 |
| 52 | Photoluminescence of Eu(III)-doped lamellar bridged silsesquioxanes self-templated through a hydrogen bonding array. *Journal of Materials Chemistry*, **2008**, 18, 4172 | | 60 |
| 51 | Thermal Properties of Lipid Bilayers Determined Using Upconversion Nanothermometry. *Advanced Functional Materials*, **2019**, 29, 1905474 | 15.6 | 59 |
| 50 | Thermometry at the nanoscale using lanthanide-containing organic–inorganic hybrid materials. *Journal of Luminescence*, **2013**, 133, 230-232 | 3.8 | 52 |
| 49 | Bandgap Engineering and Excitation Energy Alteration to Manage Luminescence Thermometer Performance. The Case of Sr2(Ge,Si)O4:Pr3+. *Advanced Optical Materials*, **2019**, 7, 1901102 | 8.1 | 51 |
| 48 | Electrochromic Switch Devices Mixing Small- and Large-Sized Upconverting Nanocrystals. *Advanced Functional Materials*, **2019**, 29, 1807758 | 15.6 | 48 |
| 47 | Luminescence Thermometry on the Route of the Mobile-Based Internet of Things (IoT): How Smart QR Codes Make It Real. *Advanced Science*, **2019**, 6, 1900950 | 13.6 | 44 |
| 46 | Cryogenic Nanothermometer Based on the MIL-103(Tb,Eu) Metal–Organic Framework. *European Journal of Inorganic Chemistry*, **2016**, 2016, 1967-1971 | 2.3 | 43 |
| 45 | Photonic-on-a-chip: a thermal actuated Mach-Zehnder interferometer and a molecular thermometer based on a single di-ureasil organic-inorganic hybrid. *Laser and Photonics Reviews*, **2013**, 7, 1027-1035 | 8.3 | 38 |
| 44 | Implementing Thermometry on Silicon Surfaces Functionalized by Lanthanide-Doped Self-Assembled Polymer Monolayers. *Advanced Functional Materials*, **2016**, 26, 200-209 | 15.6 | 35 |
| 43 | Tethering Luminescent Thermometry and Plasmonics: Light Manipulation to Assess Real-Time Thermal Flow in Nanoarchitectures. *Nano Letters*, **2017**, 17, 4746-4752 | 11.5 | 33 |
| 42 | Organic-Inorganic Eu(3+)/Tb(3+) codoped hybrid films for temperature mapping in integrated circuits. *Frontiers in Chemistry*, **2013**, 1, 9 | 5 | 33 |
| 41 | Implementing luminescence thermometry at 1.3 in using (GdNd)2O3 nanoparticles. *Journal of Luminescence*, **2016**, 180, 25-30 | 3.8 | 33 |
| 40 | Tuning the sensitivity of Ln3+-based luminescent molecular thermometers through ligand design. *Journal of Luminescence*, **2016**, 169, 497-502 | 3.8 | 31 |
| 39 | Engineering of Mixed Eu3+/Tb3+ Metal-Organic Frameworks Luminescent Thermometers with Tunable Sensitivity. *Advanced Optical Materials*, **2021**, 9, 2001938 | 8.1 | 31 |
| 38 | Real-Time Intracellular Temperature Imaging Using Lanthanide-Bearing Polymeric Micelles. *Nano Letters*, **2020**, 20, 6466-6472 | 11.5 | 29 |
| 37 | Ag2S Nanoheaters with Multiparameter Sensing for Reliable Thermal Feedback during In Vivo Tumor Therapy. *Advanced Functional Materials*, **2020**, 30, 2002730 | 15.6 | 26 |

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| 36 | Nanoplatforms for Plasmon-Induced Heating and Thermometry. *ChemNanoMat*, **2016**, 2, 520-527 | 3.5 | 26 |
| 35 | Exploiting bandgap engineering to finely control dual-mode Lu2(Ge,Si)O5:Pr3+ luminescence thermometers. *Journal of Materials Chemistry C*, **2020**, 8, 10086-10097 | 7.1 | 24 |
| 34 | A New Generation of Primary Luminescent Thermometers Based on Silicon Nanoparticles and Operating in Different Media. *Particle and Particle Systems Characterization*, **2016**, 33, 740-748 | 3.1 | 24 |
| 33 | Self-Calibrated Double Luminescent Thermometers Through Upconverting Nanoparticles. *Frontiers in Chemistry*, **2019**, 7, 267 | 5 | 22 |
| 32 | A cost-effective quantum yield measurement setup for upconverting nanoparticles. *Journal of Luminescence*, **2017**, 189, 64-70 | 3.8 | 21 |
| 31 | [INVITED] Luminescent QR codes for smart labelling and sensing. *Optics and Laser Technology*, **2018** , 101, 304-311 | 4.2 | 20 |
| 30 | Inert Shell Effect on the Quantum Yield of Neodymium-Doped Near-Infrared Nanoparticles: The Necessary Shield in an Aqueous Dispersion. *Nano Letters*, **2020**, 20, 7648-7654 | 11.5 | 17 |
| 29 | Thermal enhancement of upconversion emission in nanocrystals: a comprehensive summary. *Physical Chemistry Chemical Physics*, **2021**, 23, 20-42 | 3.6 | 16 |
| 28 | Simultaneous Measurement of the Emission Quantum Yield and Local Temperature: The Illustrative Example of SrF2:Yb3+/Er3+ Single Crystals. *European Journal of Inorganic Chemistry*, **2020**, 2020, 1555-1561 | 2.3 | 15 |
| 27 | La0.4Gd1.6Zr2O7:0.1%Pr transparent sintered ceramic as a wide-range luminescence thermometer. *Journal of Materials Chemistry C*, **2020**, 8, 7005-7011 | 7.1 | 14 |
| 26 | Metal-free highly luminescent silica nanoparticles. *Langmuir*, **2012**, 28, 8190-6 | 4 | 14 |
| 25 | Aggregation-induced heterogeneities in the emission of upconverting nanoparticles at the submicron scale unfolded by hyperspectral microscopy. *Nanoscale Advances*, **2019**, 1, 2537-2545 | 5.1 | 13 |
| 24 | Going Above and Beyond: A Tenfold Gain in the Performance of Luminescence Thermometers Joining Multiparametric Sensing and Multiple Regression. *Laser and Photonics Reviews*,2100301 | 8.3 | 13 |
| 23 | Upconversion Nanocomposite Materials With Designed Thermal Response for Optoelectronic Devices. *Frontiers in Chemistry*, **2019**, 7, 83 | 5 | 12 |
| 22 | Lanthanide Luminescence to Mimic Molecular Logic and Computing through Physical Inputs. *Advanced Optical Materials*, **2020**, 8, 2000312 | 8.1 | 12 |
| 21 | Ga-modified YAG:Pr3+ dual-mode tunable luminescence thermometers. *Chemical Engineering Journal*, **2021**, 421, 129764 | 14.7 | 12 |
| 20 | Multimodal Tuning of Synaptic Plasticity Using Persistent Luminescent Memitters. *Advanced Materials*, **2021**, e2101895 | 24 | 8 |
| 19 | Thermal properties of lipid bilayers derived from the transient heating regime of upconverting nanoparticles. *Nanoscale*, **2020**, 12, 24169-24176 | 7.7 | 7 |

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| 18 | Exploring Single-Nanoparticle Dynamics at High Temperature by Optical Tweezers. *Nano Letters*, **2020**, 20, 8024-8031 | 11.5 | 7 |
| 17 | Radiation-to-heat conversion efficiency in SrF2:Yb3+/Er3+ upconverting nanoparticles. *Optical Materials*, **2018**, 83, 1-6 | 3.3 | 5 |
| 16 | Rationalizing the Thermal Response of Dual-Center Molecular Thermometers: The Example of an Eu/Tb Coordination Complex. *Advanced Optical Materials*,2101870 | 8.1 | 5 |
| 15 | Hexagonal-phase NaREF upconversion nanocrystals: the matter of crystal structure. *Nanoscale*, **2021**, | 7.7 | 5 |
| 14 | Nanoscale Thermometry for Hyperthermia Applications **2019**, 139-172 | | 5 |
| 13 | Decoding a Percolation Phase Transition of Water at ~330 K with a Nanoparticle Ruler. *Journal of Physical Chemistry Letters*, **2020**, 11, 6704-6711 | 6.4 | 5 |
| 12 | Understanding the shell passivation in Ln3+-doped luminescent nanocrystals. *Small Structures*, | 8.7 | 3 |
| 11 | Controlling the thermal switching in upconverting nanoparticles through surface chemistry. *Nanoscale*, **2021**, 13, 16267-16276 | 7.7 | 3 |
| 10 | Hyperspectral imaging thermometry assisted by upconverting nanoparticles: Experimental artifacts and accuracy. *Physica B: Condensed Matter*, **2022**, 629, 413639 | 2.8 | 2 |
| 9 | Molecular Logic Devices: Lanthanide Luminescence to Mimic Molecular Logic and Computing through Physical Inputs (Advanced Optical Materials 12/2020). *Advanced Optical Materials*, **2020**, 8, 2070050 | 8.1 | 1 |
| 8 | Sustainable Smart Tags with Two-Step Verification for Anticounterfeiting Triggered by the Photothermal Response of Upconverting Nanoparticles. *Advanced Photonics Research*,2100227 | 1.9 | 1 |
| 7 | 3D sub-cellular localization of upconverting nanoparticles through hyperspectral microscopy. *Physica B: Condensed Matter*, **2022**, 626, 413470 | 2.8 | 1 |
| 6 | Going Above and Beyond: A Tenfold Gain in the Performance of Luminescence Thermometers Joining Multiparametric Sensing and Multiple Regression (Laser Photonics Rev. 15(11)/2021). *Laser and Photonics Reviews*, **2021**, 15, 2170056 | 8.3 | 1 |
| 5 | Luminescent Thermometers: Implementing Thermometry on Silicon Surfaces Functionalized by Lanthanide-Doped Self-Assembled Polymer Monolayers (Adv. Funct. Mater. 2/2016). *Advanced Functional Materials*, **2016**, 26, 312-312 | 15.6 | 1 |
| 4 | Reprogrammable and Reconfigurable Photonic Molecular Logic Gates Based on Ln 3+ Ions. *Advanced Optical Materials*,2200138 | 8.1 | 1 |
| 3 | Understanding the Shell Passivation in Ln 3+ -Doped Luminescent Nanocrystals. *Small Structures*, **2022**, 3, 2270010 | 8.7 | 0 |
| 2 | Simultaneous Measurement of the Emission Quantum Yield and Local Temperature: The Illustrative Example of SrF2:Yb3+/Er3+ Single Crystals. *European Journal of Inorganic Chemistry*, **2020**, 2020, 1540-1540 | 2.3 | |
| 1 | Metal–Organic Frameworks: Lanthanide–Organic Framework Nanothermometers Prepared by Spray-Drying (Adv. Funct. Mater. 19/2015). *Advanced Functional Materials*, **2015**, 25, 2939-2939 | 15.6 | |