Carlos Brites

List of Publications by Year in Descending Order

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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	3D sub-cellular localization of upconverting nanoparticles through hyperspectral microscopy. *Physica B: Condensed Matter*, **2022**, 626, 413470	2.8	1
70	Hyperspectral imaging thermometry assisted by upconverting nanoparticles: Experimental artifacts and accuracy. *Physica B: Condensed Matter*, **2022**, 629, 413639	2.8	2
69	Understanding the Shell Passivation in Ln 3+ -Doped Luminescent Nanocrystals. *Small Structures*, **2022**, 3, 2270010	8.7	0
68	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
67	Hexagonal-phase NaREF upconversion nanocrystals: the matter of crystal structure. *Nanoscale*, **2021**,	7.7	5
66	Multimodal Tuning of Synaptic Plasticity Using Persistent Luminescent Memitters. *Advanced Materials*, **2021**, e2101895	24	8
65	Thermal enhancement of upconversion emission in nanocrystals: a comprehensive summary. *Physical Chemistry Chemical Physics*, **2021**, 23, 20-42	3.6	16
64	Controlling the thermal switching in upconverting nanoparticles through surface chemistry. *Nanoscale*, **2021**, 13, 16267-16276	7.7	3
63	Engineering of Mixed Eu3+/Tb3+ Metal-Organic Frameworks Luminescent Thermometers with Tunable Sensitivity. *Advanced Optical Materials*, **2021**, 9, 2001938	8.1	31
62	Ga-modified YAG:Pr3+ dual-mode tunable luminescence thermometers. *Chemical Engineering Journal*, **2021**, 421, 129764	14.7	12
61	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
60	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
59	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
58	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	
57	La0.4Gd1.6Zr2O7:0.1%Pr transparent sintered ceramic [illegible] wide-range luminescence thermometer. *Journal of Materials Chemistry C*, **2020**, 8, 7005-7011	7.1	14
56	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
55	Thermal properties of lipid bilayers derived from the transient heating regime of upconverting nanoparticles. *Nanoscale*, **2020**, 12, 24169-24176	7.7	7

54	Real-Time Intracellular Temperature Imaging Using Lanthanide-Bearing Polymeric Micelles. *Nano Letters*, **2020**, 20, 6466-6472	11.5	29
53	Ag2S Nanoheaters with Multiparameter Sensing for Reliable Thermal Feedback during In Vivo Tumor Therapy. *Advanced Functional Materials*, **2020**, 30, 2002730	15.6	26
52	Exploring Single-Nanoparticle Dynamics at High Temperature by Optical Tweezers. *Nano Letters*, **2020**, 20, 8024-8031	11.5	7
51	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
50	Lanthanide Luminescence to Mimic Molecular Logic and Computing through Physical Inputs. *Advanced Optical Materials*, **2020**, 8, 2000312	8.1	12
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	Upconversion Nanocomposite Materials With Designed Thermal Response for Optoelectronic Devices. *Frontiers in Chemistry*, **2019**, 7, 83	5	12
47	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
46	Self-Calibrated Double Luminescent Thermometers Through Upconverting Nanoparticles. *Frontiers in Chemistry*, **2019**, 7, 267	5	22
45	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
44	Thermal Properties of Lipid Bilayers Determined Using Upconversion Nanothermometry. *Advanced Functional Materials*, **2019**, 29, 1905474	15.6	59
43	Nanoscale Thermometry for Hyperthermia Applications **2019**, 139-172		5
42	Electrochromic Switch Devices Mixing Small- and Large-Sized Upconverting Nanocrystals. *Advanced Functional Materials*, **2019**, 29, 1807758	15.6	48
41	Lanthanide-Based Thermometers: At the Cutting-Edge of Luminescence Thermometry. *Advanced Optical Materials*, **2019**, 7, 1801239	8.1	347
40	Upconversion thermometry: a new tool to measure the thermal resistance of nanoparticles. *Nanoscale*, **2018**, 10, 6602-6610	7.7	102
39	Widening the Temperature Range of Luminescent Thermometers through the Intra- and Interconfigurational Transitions of Pr3+. *Advanced Optical Materials*, **2018**, 6, 1701318	8.1	104
38	Radiation-to-heat conversion efficiency in SrF2:Yb3+/Er3+ upconverting nanoparticles. *Optical Materials*, **2018**, 83, 1-6	3.3	5
37	[INVITED] Luminescent QR codes for smart labelling and sensing. *Optics and Laser Technology*, **2018** , 101, 304-311	4.2	20

36	Upconverting Nanoparticles Working As Primary Thermometers In Different Media. *Journal of Physical Chemistry C*, **2017**, 121, 13962-13968	3.8	138
35	A cost-effective quantum yield measurement setup for upconverting nanoparticles. *Journal of Luminescence*, **2017**, 189, 64-70	3.8	21
34	Tethering Luminescent Thermometry and Plasmonics: Light Manipulation to Assess Real-Time Thermal Flow in Nanoarchitectures. *Nano Letters*, **2017**, 17, 4746-4752	11.5	33
33	Visible-Light Excited Luminescent Thermometer Based on Single Lanthanide Organic Frameworks. *Advanced Functional Materials*, **2016**, 26, 8677-8684	15.6	143
32	Tuning the sensitivity of Ln3+-based luminescent molecular thermometers through ligand design. *Journal of Luminescence*, **2016**, 169, 497-502	3.8	31
31	Unveiling in Vivo Subcutaneous Thermal Dynamics by Infrared Luminescent Nanothermometers. *Nano Letters*, **2016**, 16, 1695-703	11.5	209
30	Instantaneous ballistic velocity of suspended Brownian nanocrystals measured by upconversion nanothermometry. *Nature Nanotechnology*, **2016**, 11, 851-856	28.7	227
29	Nanoplatforms for Plasmon-Induced Heating and Thermometry. *ChemNanoMat*, **2016**, 2, 520-527	3.5	26
28	Cryogenic Nanothermometer Based on the MIL-103(Tb,Eu) Metal–Organic Framework. *European Journal of Inorganic Chemistry*, **2016**, 2016, 1967-1971	2.3	43
27	Implementing Thermometry on Silicon Surfaces Functionalized by Lanthanide-Doped Self-Assembled Polymer Monolayers. *Advanced Functional Materials*, **2016**, 26, 200-209	15.6	35
26	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
25	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
24	Lanthanides in Luminescent Thermometry. *Fundamental Theories of Physics*, **2016**, 49, 339-427	0.8	196
23	Lanthanide Organic Framework Luminescent Thermometers. *Chemistry - A European Journal*, **2016**, 22, 14782-14795	4.8	312
22	Implementing luminescence thermometry at 1.3 K using (GdNd)2O3 nanoparticles. *Journal of Luminescence*, **2016**, 180, 25-30	3.8	33
21	A cryogenic luminescent ratiometric thermometer based on a lanthanide phosphonate dimer. *Journal of Materials Chemistry C*, **2015**, 3, 8480-8484	7.1	67
20	Lanthanide–Organic Framework Nanothermometers Prepared by Spray-Drying. *Advanced Functional Materials*, **2015**, 25, 2824-2830	15.6	210
19	Boosting the sensitivity of Nd(3+)-based luminescent nanothermometers. *Nanoscale*, **2015**, 7, 17261-7	7.7	172

18	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	
17	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
16	White OLED based on a temperature sensitive Eu3+/Tb3+ diketonate complex. *Organic Electronics*, **2014**, 15, 798-808	3.5	67
15	Ratiometric nanothermometer based on an emissive Ln3+-organic framework. *ACS Nano*, **2013**, 7, 7213-8	16.7	280
14	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
13	Thermometry at the nanoscale using lanthanide-containing organic inorganic hybrid materials. *Journal of Luminescence*, **2013**, 133, 230-232	3.8	52
12	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
11	Organic-Inorganic Eu(3+)/Tb(3+) codoped hybrid films for temperature mapping in integrated circuits. *Frontiers in Chemistry*, **2013**, 1, 9	5	33
10	Thermometry at the nanoscale. *Nanoscale*, **2012**, 4, 4799-829	7.7	1001
9	Metal-free highly luminescent silica nanoparticles. *Langmuir*, **2012**, 28, 8190-6	4	14
8	Lanthanide-based luminescent molecular thermometers. *New Journal of Chemistry*, **2011**, 35, 1177	3.6	234
7	A luminescent molecular thermometer for long-term absolute temperature measurements at the nanoscale. *Advanced Materials*, **2010**, 22, 4499-504	24	359
6	Photoluminescence of Eu(III)-doped lamellar bridged silsesquioxanes self-templated through a hydrogen bonding array. *Journal of Materials Chemistry*, **2008**, 18, 4172		60
5	Rationalizing the Thermal Response of Dual-Center Molecular Thermometers: The Example of an Eu/Tb Coordination Complex. *Advanced Optical Materials*,2101870	8.1	5
4	Sustainable Smart Tags with Two-Step Verification for Anticounterfeiting Triggered by the Photothermal Response of Upconverting Nanoparticles. *Advanced Photonics Research*,2100227	1.9	1
3	Understanding the shell passivation in Ln3+-doped luminescent nanocrystals. *Small Structures*,	8.7	3
2	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
1	Reprogrammable and Reconfigurable Photonic Molecular Logic Gates Based on Ln 3+ Ions. *Advanced Optical Materials*,2200138	8.1	1