Eduardo D MartÃ-nez

List of Publications by Year
in descending order

28 papers	602 citations	687363 13 h-index	610901 24 g-index
29 all docs	29 docs citations	29 times ranked	835 citing authors

#	Article	IF	Citations
1	Electrochromic Switch Devices Mixing Smallâ€•and Largeâ€Sized Upconverting Nanocrystals. Advanced Functional Materials, 2019, 29, 1807758.	14.9	69
2	Silver Nanoparticle-Mesoporous Oxide Nanocomposite Thin Films: A Platform for Spatially Homogeneous SERS-Active Substrates with Enhanced Stability. ACS Applied Materials & Interfaces, 2014, 6, 5263-5272.	8.0	54
3	Tethering Luminescent Thermometry and Plasmonics: Light Manipulation to Assess Real-Time Thermal Flow in Nanoarchitectures. Nano Letters, 2017, 17, 4746-4752.	9.1	50
4	Mesoporous hybrid and nanocomposite thin films. A solâ€“gel toolbox to create nanoconfined systems with localized chemical properties. Journal of Sol-Gel Science and Technology, 2011, 57, 299-312.	2.4	49
5	Patterned Production of Silverâ^'Mesoporous Titania Nanocomposite Thin Films Using Lithography-Assisted Metal Reduction. ACS Applied Materials & Interfaces, 2009, 1, 746-749.	8.0	43
6	Thermal enhancement of upconversion emission in nanocrystals: a comprehensive summary. Physical Chemistry Chemical Physics, 2021, 23, 20-42.	2.8	43
7	Optical Properties of Au Nanoparticles Included in Mesoporous TiO₂ Thin Films: A Dual Experimental and Modeling Study. Journal of Physical Chemistry C, 2013, 117, 7246-7259.	3.1	39
8	Self-Calibrated Double Luminescent Thermometers Through Upconverting Nanoparticles. Frontiers in Chemistry, 2019, 7, 267.	3.6	34
9	Confinement-Induced Growth of Au Nanoparticles Entrapped in Mesoporous TiO2 Thin Films Evidenced by in Situ Thermo-Ellipsometry. Journal of Physical Chemistry C, 2014, 118, 13137-13151.	3.1	30
10	Upconversion Nanocomposite Materials With Designed Thermal Response for Optoelectronic Devices. Frontiers in Chemistry, 2019, 7, 83.	3.6	22
11	Electrical conductivity in patterned silverâ€“mesoporous titania nanocomposite thin films: towards robust 3D nano-electrodes. Physical Chemistry Chemical Physics, 2010, 12, 14445.	2.8	21
12	Thermoplasmonic enhancement of upconversion in small-size doped NaGd(Y)F₄ nanoparticles coupled to gold nanostars. Nanoscale, 2018, 10, 14687-14696.	5.6	17
13	Silver nanowires in poly(methyl methacrylate) as a conductive nanocomposite for microfabrication. Flexible and Printed Electronics, 2016, 1, 035003.	2.7	16
14	Crystal-field effects in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mrow><mml:mi>Er</mml:mi></mml:mrow><mml:mrow><m - and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mrow><mml:mi>Yb</mml:mi></mml:mrow><mml:mrow><m -doped hexagonal <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>NaYF</mml:mi. Physical Revie	3.2	12
15	Electrothermal silver nanowire thin films for In-Situ observation of thermally-driven chemical processes. Sensors and Actuators B: Chemical, 2018, 259, 475-483.	7.8	12
16	Mesoporous Thin Films of TiO2 on Attenuated Total Reflection Crystals. An In Situ Fourier-Transform Infrared Study of the Kinetics and Equilibrium of Adsorption and Photocatalysis of Carboxylic Acids. Journal of Physical Chemistry C, 2013, 117, 15026-15034.	3.1	11
17	Time evolution of surface speciation during heterogeneous photocatalysis: Gallic acid on titanium dioxide. Applied Catalysis B: Environmental, 2012, 125, 215-221.	20.2	10
18	Thermoplasmonic Maskless Lithography on Upconverting Nanocomposites Assisted by Gold Nanostars. ACS Applied Nano Materials, 2019, 2, 6889-6897.	5.0	10

#	Article	IF	Citations
19	Integrating photoluminescent nanomaterials with photonic nanostructures. Journal of Luminescence, 2021, 233, 117870.	3.1	10
20	Hyperspectral imaging thermometry assisted by upconverting nanoparticles: Experimental artifacts and accuracy. Physica B: Condensed Matter, 2022, 629, 413639.	2.7	10
21	Magnetic Gold Confined in Ordered Mesoporous Titania Thin Films: A Noble Approach for Magnetic Devices. ACS Applied Materials & Interfaces, 2017, 9, 965-971.	8.0	7
22	Controlling the thermal switching in upconverting nanoparticles through surface chemistry. Nanoscale, 2021, 13, 16267-16276.	5.6	7
23	Recent Advances on Nanocomposite Resists With Design Functionality for Lithographic Microfabrication. Frontiers in Materials, 2021, 8, .	2.4	7
24	Microscopic Electrochemical Control of Ag Nanoparticles into Mesoporous TiO₂ Thin Films. Journal of Physical Chemistry C, 2019, 123, 3579-3587.	3.1	6
25	Three-Dimensional Electrochemical Lithography in Mesoporous TiO₂ Thin Films. Journal of Physical Chemistry C, 2015, 119, 28954-28960.	3.1	5
26	Probing Surface Effects on Î±-NaYF₄ Nanoparticles by Nuclear Magnetic Resonance. Journal of Physical Chemistry C, 2020, 124, 9523-9535.	3.1	4
27	Topographical and Physicochemical Contrast in Photopatterned SU-8 Films for Microfabrication of Multilayer Structures. Advances in Materials Science and Engineering, 2016, 2016, 1-7.	1.8	2
28	Synthesis, characterization, and incorporation of upconverting nanoparticles into a dental adhesive. Brazilian Oral Research, 2021, 35, e120.	1.4	1