

# Miguel Andrés Hernández Rodríguez

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9304678/publications.pdf>

Version: 2024-02-01

30  
papers

604  
citations

623574

14  
h-index

610775

24  
g-index

30  
all docs

30  
docs citations

30  
times ranked

774  
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparison of the sensitivity as optical temperature sensor of nano-perovskite doped with Nd <sup>3+</sup> ions in the first and second biological windows. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 970-976.	4.0	110
2	Er <sup>3+</sup> -doped tellurite glasses for enhancing a solar cell photocurrent through photon upconversion upon 1500Ånm excitation. <i>Materials Chemistry and Physics</i> , 2017, 199, 67-72.	2.0	49
3	Experimental enhancement of the photocurrent in a solar cell using upconversion process in fluoroindate glasses exciting at 1480nm. <i>Solar Energy Materials and Solar Cells</i> , 2013, 116, 171-175.	3.0	44
4	Carbon supported Ag and Ag-Co catalysts tolerant to methanol and ethanol for the oxygen reduction reaction in alkaline media. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 19789-19798.	3.8	38
5	Liquid whispering-gallery-mode resonator as a humidity sensor. <i>Optics Express</i> , 2017, 25, 1165.	1.7	38
6	Chemical pressure effects on the spectroscopic properties of Nd <sup>3+</sup> -doped gallium nano-garnets. <i>Optical Materials Express</i> , 2015, 5, 1661.	1.6	34
7	Lanthanide-doped Y <sub>3</sub> Ga <sub>5</sub> O <sub>12</sub> garnets for nanoheating and nanothermometry in the first biological window. <i>Optical Materials</i> , 2018, 84, 46-51.	1.7	25
8	Yttrium orthoaluminate nanoperovskite doped with Tm <sup>3+</sup> ions as upconversion optical temperature sensor in the near-infrared region. <i>Optics Express</i> , 2017, 25, 27845.	1.7	22
9	High pressure luminescence of Nd <sup>3+</sup> in YAlO <sub>3</sub> perovskite nanocrystals: A crystal-field analysis. <i>Journal of Chemical Physics</i> , 2018, 148, 044201.	1.2	21
10	Lanthanide Luminescence to Mimic Molecular Logic and Computing through Physical Inputs. <i>Advanced Optical Materials</i> , 2020, 8, 2000312.	3.6	20
11	Carbon dots as temperature nanosensors in the physiological range. <i>Journal of Luminescence</i> , 2018, 196, 313-315.	1.5	18
12	Upconversion and luminescence temperature sensitivity of Er <sup>3+</sup> ions in yttrium oxysulfate nanophosphor. <i>Optical Materials</i> , 2019, 95, 109197.	1.7	15
13	Synthesis, characterization and spectroscopic properties of a new Nd <sup>3+</sup> -doped Co-picromerite-type Tutton salt. <i>Journal of Luminescence</i> , 2016, 177, 93-98.	1.5	14
14	Analysis of the upconversion emission of yttrium orthoaluminate nano-perovskite co-doped with Er <sup>3+</sup> /Yb <sup>3+</sup> ions for thermal sensing applications. <i>Journal of Luminescence</i> , 2018, 202, 316-321.	1.5	14
15	Protein Cohabitation: Improving the Photochemical Stability of R-Phycoerythrin in the Solid State. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 6249-6255.	2.1	14
16	Bi-functional carbon-based catalysts for unitized regenerative fuel cells. <i>Journal of Catalysis</i> , 2020, 387, 138-144.	3.1	14
17	Blue up-conversion emission of Yb <sup>3+</sup> -doped langbeinite salts. <i>Optical Materials</i> , 2016, 53, 190-194.	1.7	13
18	Structural, Vibrational, and Elastic Properties of Yttrium Orthoaluminate Nanoperovskite at High Pressures. <i>Journal of Physical Chemistry C</i> , 2017, 121, 15353-15367.	1.5	13

#	ARTICLE	IF	CITATIONS
19	A perspective on sustainable luminescent solar concentrators. <i>Journal of Applied Physics</i> , 2022, 131, .	1.1	13
20	Synthesis, structural characterization and optical study of Dy <sup>3+</sup> -doped langbeinite salts. <i>Journal of Luminescence</i> , 2016, 177, 160-165.	1.5	12
21	[Ga <sup>3+</sup> 8 Sm <sup>3+</sup> 2 , Ga <sup>3+</sup> 8 Tb <sup>3+</sup> 2 ] Metallacrowns are Highly Promising Ratiometric Luminescent Molecular Nanothermometers Operating at Physiologically Relevant Temperatures. <i>Chemistry - A European Journal</i> , 2020, 26, 13792-13796.	1.7	12
22	1000 Å optical ratiometric thermometer based on Er <sup>3+</sup> luminescence in yttrium gallium garnet. <i>Journal of Alloys and Compounds</i> , 2021, 886, 161188.	2.8	12
23	Spectroscopic properties of Nd <sup>3+</sup> ions in YAP nano-perovskites. <i>Journal of Luminescence</i> , 2017, 188, 204-208.	1.5	9
24	Nanoperovskite doped with Yb <sup>3+</sup> and Tm <sup>3+</sup> ions used as an optical upconversion temperature sensor. <i>Optical Materials</i> , 2018, 83, 187-191.	1.7	9
25	Reprogrammable and Reconfigurable Photonic Molecular Logic Gates Based on Ln <sup>3+</sup> Ions. <i>Advanced Optical Materials</i> , 2022, 10, .	3.6	6
26	High pressure sensitivity of anti-Stokes fluorescence in Nd <sup>3+</sup> doped yttrium orthoaluminate nano-perovskites. <i>Journal of Luminescence</i> , 2018, 196, 20-24.	1.5	5
27	Synergistic use of Raman and photoluminescence signals for optical thermometry with large temperature sensitivity. <i>Physica B: Condensed Matter</i> , 2022, 626, 413455.	1.3	4
28	Optical Temperature Sensor Capabilities of the Green Upconverted Luminescence of Er <sup>3+</sup> in La <sub>3</sub> NbO <sub>7</sub> Ceramic Powders. <i>Crystals</i> , 2022, 12, 455.	1.0	3
29	Through-space hopping transport in an iodine-doped perylene-based metal-organic framework. <i>Molecular Systems Design and Engineering</i> , 2022, 7, 1065-1072.	1.7	2
30	Molecular Logic Devices: Lanthanide Luminescence to Mimic Molecular Logic and Computing through Physical Inputs ( <i>Advanced Optical Materials</i> 12/2020). <i>Advanced Optical Materials</i> , 2020, 8, 2070050.	3.6	1