Patricia Haro Gonzalez

List of Publications by Year
in descending order

108 papers	5,084 citations	136950 32 h-index	88630 70 g-index
111 all docs	111 docs citations	111 times ranked	6746 citing authors

#	ARTICLE	IF	CITATIONS
1	Nanoparticles for photothermal therapies. Nanoscale, 2014, 6, 9494-9530.	5.6	1,562
2	Intratumoral Thermal Reading During Photoâ€Thermal Therapy by Multifunctional Fluorescent Nanoparticles. Advanced Functional Materials, 2015, 25, 615-626.	14.9	274
3	1.3 Î¼m emitting SrF2:Nd3+ nanoparticles for high contrast in vivo imaging in the second biological window. Nano Research, 2015, 8, 649-665.	10.4	185
4	Role of the host matrix on the thermal sensitivity of Er3+ luminescence in optical temperature sensors. Sensors and Actuators B: Chemical, 2012, 174, 176-186.	7.8	168
5	Er:Yb:NaY₂F₅O up-converting nanoparticles for sub-tissue fluorescence lifetime thermal sensing. Nanoscale, 2014, 6, 9727.	5.6	131
6	Highâ€Sensitivity Fluorescence Lifetime Thermal Sensing Based on CdTe Quantum Dots. Small, 2012, 8, 2652-2658.	10.0	130
7	Thermal Scanning at the Cellular Level by an Optically Trapped Upconverting Fluorescent Particle. Advanced Materials, 2016, 28, 2421-2426.	21.0	128
8	Reliability of rare-earth-doped infrared luminescent nanothermometers. Nanoscale, 2018, 10, 22319-22328.	5.6	124
9	Fluorescent nanothermometers for intracellular thermal sensing. Nanomedicine, 2014, 9, 1047-1062.	3.3	117
10	Heating efficiency of multi-walled carbon nanotubes in the first and second biological windows. Nanoscale, 2013, 5, 7882.	5.6	106
11	Characterization of Er3+ and Nd3+ doped Strontium Barium Niobate glass ceramic as temperature sensors. Optical Materials, 2011, 33, 742-745.	3.6	104
12	Water (H₂O and D₂O) Dispersible NIR-to-NIR Upconverting Yb³⁺/Tm³⁺ Doped MF₂ (M = Ca, Sr) Colloids: Influence of the Host Crystal. Crystal Growth and Design, 2013, 13, 4906-4913.	3.0	93
13	Analysis of Er3+ and Ho3+ codoped fluoroindate glasses as wide range temperature sensor. Materials Research Bulletin, 2011, 46, 1051-1054.	5.2	90
14	Quantum Dot Thermometry Evaluation of Geometry Dependent Heating Efficiency in Gold Nanoparticles. Langmuir, 2014, 30, 1650-1658.	3.5	85
15	Optical Torques on Upconverting Particles for Intracellular Microrheometry. Nano Letters, 2016, 16, 8005-8014.	9.1	70
16	Quantum Dotâ€Based Thermal Spectroscopy and Imaging of Optically Trapped Microspheres and Single Cells. Small, 2013, 9, 2162-2170.	10.0	67
17	Optical trapping of NaYF4:Er3+,Yb3+ upconverting fluorescent nanoparticles. Nanoscale, 2013, 5, 12192.	5.6	66
18	Fluorescence intensity ratio and lifetime thermometry of praseodymium phosphates for temperature sensing. Journal of Luminescence, 2018, 201, 372-383.	3.1	63

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19	Upconverting Nanoparticle to Quantum Dot FÃ¶rster Resonance Energy Transfer: Increasing the Efficiency through Donor Design. ACS Photonics, 2018, 5, 2261-2270.	6.6	63
20	Coreâ€"shell rare-earth-doped nanostructures in biomedicine. Nanoscale, 2018, 10, 12935-12956.	5.6	63
21	Optical temperature sensing of Er 3+ /Yb 3+ doped LaGdO 3 based on fluorescence intensity ratio and lifetime thermometry. Optical Materials, 2018, 76, 34-41.	3.6	62
22	Ion migration assisted inscription of high refractive index contrast waveguides by femtosecond laser pulses in phosphate glass. Optics Letters, 2013, 38, 5248.	3.3	61
23	Upconverting nanocomposites with combined photothermal and photodynamic effects. Nanoscale, 2018, 10, 791-799.	5.6	61
24	Luminescence thermometry and imaging in the second biological window at high penetration depth with Nd:KGd(WO₄)₂ nanoparticles. Journal of Materials Chemistry C, 2016, 4, 7397-7405.	5.5	59
25	Assessing Single Upconverting Nanoparticle Luminescence by Optical Tweezers. Nano Letters, 2015, 15, 5068-5074.	9.1	56
26	Determining the 3D orientation of optically trapped upconverting nanorods by <i>in situ</i> single-particle polarized spectroscopy. Nanoscale, 2016, 8, 300-308.	5.6	52
27	Fluorescent nanothermometers provide controlled plasmonic-mediated intracellular hyperthermia. Nanomedicine, 2013, 8, 379-388.	3.3	49
28	Optical trapping for biosensing: materials and applications. Journal of Materials Chemistry B, 2017, 5, 9085-9101.	5.8	48
29	La2O3: Tm, Yb, Er upconverting nano-oxides for sub-tissue lifetime thermal sensing. Sensors and Actuators B: Chemical, 2016, 234, 541-548.	7.8	46
30	Whispering gallery modes in a glass microsphere as a function of temperature. Optics Express, 2011, 19, 25792.	3.4	39
31	Absorption efficiency of gold nanorods determined by quantum dot fluorescence thermometry. Applied Physics Letters, 2012, 100, 201110.	3.3	38
32	Optical Forces at the Nanoscale: Size and Electrostatic Effects. Nano Letters, 2018, 18, 602-609.	9.1	35
33	Manipulation of up-conversion emission in NaYF₄core@shell nanoparticles doped by Er³⁺, Tm³⁺, or Yb³⁺ions by excitation wavelengthâ€"three ionsâ€"plenty of possibilities. Nanoscale, 2021, 13, 7322-7333.	5.6	31
34	Luminescent nanothermometry using short-wavelength infrared light. Journal of Alloys and Compounds, 2018, 746, 710-719.	5.5	30
35	Optical properties of Er3+-doped strontium barium niobate nanocrystals obtained by thermal treatment in glass. Journal of Luminescence, 2008, 128, 908-910.	3.1	28
36	Bifunctional Tm3+,Yb3+:GdVO4@SiO2 Core-Shell Nanoparticles in HeLa Cells: Upconversion Luminescence Nanothermometry in the First Biological Window and Biolabelling in the Visible. Nanomaterials, 2020, 10, 993.	4.1	27

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37	Whispering-gallery modes in glass microspheres: optimization of pumping in a modified confocal microscope. Optics Letters, 2011, 36, 615.	3.3	26
38	Evaluation of rare earth doped silica sub-micrometric spheres as optically controlled temperature sensors. Journal of Applied Physics, 2012, 112, 054702.	2.5	23
39	New strategies invonving upconverting nanoparticles for determining moderate temperatures by luminescence thermometry. Journal of Luminescence, 2016, 169, 711-716.	3.1	22
40	Singleâ€Cell Biodetection by Upconverting Microspinners. Small, 2019, 15, e1904154.	10.0	22
41	Exploring Single-Nanoparticle Dynamics at High Temperature by Optical Tweezers. Nano Letters, 2020, 20, 8024-8031.	9.1	22
42	Enhancing Optical Forces on Fluorescent Upâ€Converting Nanoparticles by Surface Charge Tailoring. Small, 2015, 11, 1555-1561.	10.0	21
43	Unveiling Molecular Changes in Water by Small Luminescent Nanoparticles. Small, 2017, 13, 1700968.	10.0	20
44	Nanojet Trapping of a Single Subâ€10Ânm Upconverting Nanoparticle in the Full Liquid Water Temperature Range. Small, 2021, 17, e2006764.	10.0	20
45	Local devitrification of Dy3+ doped Ba2TiSi2O8 glass by laser irradiation. Optical Materials, 2010, 33, 186-190.	3.6	19
46	Synthesis, characterization and optical spectroscopy of Eu3+ doped titanate nanotubes. Journal of Luminescence, 2011, 131, 2473-2477.	3.1	19
47	Hyperspectral Imaging and Optical Trapping: Complementary Tools for Assessing Directionâ€Dependent Polarized Emission from Single Upconverting LiYF₄:Yb³⁺/Er³⁺ Microparticles. Advanced Optical Materials, 2021, 9, 2100101.	7.3	19
48	Femtosecond Laser Writing of Optical Waveguides by Self-Induced Multiple Refocusing in LiTaO₃ Crystal. Journal of Lightwave Technology, 2019, 37, 3452-3458.	4.6	18
49	Down-conversion properties of luminescent silicon nanostructures formed and passivated in HNO3-based solutions. Thin Solid Films, 2006, 511-512, 473-477.	1.8	17
50	Optical properties of transparent Dy3+ doped Ba2TiSi2O8 glass ceramic. Optical Materials, 2011, 33, 738-741.	3.6	16
51	Eu3+ as a luminescent probe for the local structure of trivalent dopant ions in barium zirconate-based proton conductors. Solid State Ionics, 2013, 247-248, 94-97.	2.7	16
52	Pump and probe measurements of optical amplification at 584nm in dysprosium doped lithium niobate crystal. Optical Materials, 2010, 33, 196-199.	3.6	15
53	Upconverting Hoâ€"Yb doped titanate nanotubes. Materials Letters, 2012, 80, 81-83.	2.6	15
54	Upconversion emission obtained in Yb^3+-Er^3+ doped fluoroindate glasses using silica microspheres as focusing lens. Optics Express, 2013, 21, 10667.	3.4	15

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55	Increase of the blue upconversion emission in YAG:Tm3+ nanopowders by codoping with Yb3+ ions. Journal of Luminescence, 2008, 128, 924-926.	3.1	14
56	Plasmonic Enhancement in the Fluorescence of Organic and Biological Molecules by Photovoltaic Tweezing Assembly. Advanced Materials Technologies, 2017, 2, 1700024.	5.8	14
57	Laser irradiation in Nd3+ doped strontium barium niobate glass. Journal of Applied Physics, 2008, 104, 013112.	2.5	13
58	Analysis of the upconversion processes of Nd3+ ions in transparent YAG ceramics. Ceramics International, 2014, 40, 15951-15956.	4.8	13
59	Lightâ€Activated Upconverting Spinners. Advanced Optical Materials, 2018, 6, 1800161.	7.3	13
60	Effect of H2O and D2O Thermal Anomalies on the Luminescence of Eu3+ Aqueous Complexes. Journal of Physical Chemistry C, 2018, 122, 14838-14845.	3.1	13
61	Temperature Effects on Optical Trapping Stability. Micromachines, 2021, 12, 954.	2.9	13
62	Optical amplification properties of Dy3+-doped Gd2SiO4, Lu2SiO5 and YAl3(BO3)4 single crystals. Applied Physics B: Lasers and Optics, 2011, 103, 597-602.	2.2	12
63	Nanocrystals distribution inside the writing lines in a glass matrix using Argon laser irradiation. Optics Express, 2010, 18, 582.	3.4	10
64	Energy transfer processes in Eu3+ doped nanocrystalline La2TeO6 phosphor. Journal of Luminescence, 2014, 145, 553-556.	3.1	10
65	Desvitrification on an oxyfluoride glass doped with Tm3+ and Yb3+ ions under Ar laser irradiation. Journal of Luminescence, 2008, 128, 905-907.	3.1	9
66	Optical amplification by upconversion in Tmâ€"Yb fluoroindate glass. Optical Materials, 2010, 32, 1349-1351.	3.6	9
67	Transfer and backtransfer processes in Yb3+â€"Er3+ codoped Strontium Barium Niobate glass-ceramics. Journal of Luminescence, 2011, 131, 2446-2450.	3.1	9
68	Stimulated emission in the red, green, and blue in a nanostructured glass ceramics. Journal of Applied Physics, 2011, 109, 043102-043102-6.	2.5	9
69	Coreâ€"Shell Engineering to Enhance the Spectral Stability of Heterogeneous Luminescent Nanofluids. Particle and Particle Systems Characterization, 2017, 34, 1700276.	2.3	9
70	pH dependence of water anomaly temperature investigated by Eu(III) cryptate luminescence. Analytical and Bioanalytical Chemistry, 2020, 412, 73-80.	3.7	9
71	Optical amplification in Er3+-doped transparent Ba2NaNb5O15 single crystal at 850 nm. Journal of Applied Physics, 2009, 106, 113108.	2.5	8
72	Local devitrification on an oxyfluoride glass doped with Ho3+ ions under Argon laser irradiation. Optical Materials, 2009, 31, 1373-1375.	3.6	8

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73	Optical gain in Er3+-doped transparent LuVO4 crystal at 850nm. Optical Materials, 2010, 32, 475-478.	3.6	8
74	Plug and Play Anisotropy-Based Nanothermometers. ACS Photonics, 2018, 5, 2676-2681.	6.6	8
75	Optical study of the effect of the impurity content on the ferroelectric properties of Er3+ doped SBN glass-ceramic samples. Journal of Applied Physics, 2011, 110, .	2.5	7
76	Gold nanorod assisted intracellular optical manipulation of silica microspheres. Optics Express, 2014, 22, 19735.	3.4	7
77	Effect of ytterbium substitution on LaEr (1âˆ’x) Yb x O 3 optical properties. Journal of Luminescence, 2016, 172, 65-70.	3.1	7
78	Laser Refrigeration by an Ytterbiumâ€Doped NaYF₄ Microspinner. Small, 2021, 17, e2103122.	10.0	7
79	Upconversion emission in Er3+-doped lead niobium germanate thin-film glasses produced by pulsed laser deposition. Applied Physics A: Materials Science and Processing, 2008, 93, 621-625.	2.3	6
80	Localized desvitrifiation in Er3+-doped strontium barium niobate glass by laser irradiation. Applied Physics A: Materials Science and Processing, 2008, 93, 977-981.	2.3	6
81	Optical amplification in Er3+-doped fluoroindate glass at 840nm and 1550nm. Optical Materials, 2009, 31, 1370-1372.	3.6	6
82	Nanocrystal formation using laser irradiation on Nd3+ doped barium titanium silicate glasses. Journal of Alloys and Compounds, 2013, 553, 35-39.	5.5	6
83	Heat in optical tweezers. Proceedings of SPIE, 2013, , .	0.8	5
84	Local crystallization in an oxyfluoride glass doped with Er3+ ions using a continuous argon laser. Applied Physics A: Materials Science and Processing, 2008, 93, 983-986.	2.3	4
85	Structural changes induced on strontium barium niobate glass byÂfemtosecond laser irradiation. Applied Physics A: Materials Science and Processing, 2010, 98, 879-884.	2.3	4
86	Crystallization effect on Tm3+â€“Yb3+ codoped SBN glass ceramics. Optical Materials, 2010, 32, 1385-1388.	3.6	4
87	Effects of the preparation processes on structural, electronic, and optical properties of LaHoO 3. Materials Research Bulletin, 2016, 76, 179-186.	5.2	4
88	X-ray nanoimaging of Nd^3+ optically active ions embedded in Sr_05Ba_05Nb_2O_6 nanocrystals. Optical Materials Express, 2017, 7, 2424.	3.0	4
89	Upconverting materials for boosting the development of advanced optical microrheometric techniques. Optical Materials, 2018, 84, 514-523.	3.6	4
90	Optical Manipulation of Lanthanide-Doped Nanoparticles: How to Overcome Their Limitations. Frontiers in Chemistry, 2020, 8, 593398.	3.6	4

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91	Analysis of the optical properties of Er3+-doped strontium barium niobate nanocrystals using time-resolved laser spectroscopy. Applied Physics A: Materials Science and Processing, 2010, 99, 771-776.	2.3	3
92	Second harmonic generation in Er3+â€“Yb3+:YBO3. Materials Letters, 2010, 64, 650-653.	2.6	3
93	Formation of Nd3+ doped Strontium Barium Niobate nanocrystals by two different methods. Optical Materials, 2010, 32, 1389-1392.	3.6	3
94	Nanocrystals formation on Ho3+ doped strontium barium niobate glass. Journal of Luminescence, 2011, 131, 657-661.	3.1	3
95	Luminescence and cathodoluminescence properties of MIPr(PO3)4 (MI=Na, Li, K) and PrP5O14. Physica B: Condensed Matter, 2019, 554, 121-125.	2.7	3
96	Effects of Er3+ and Yb3+ doping on structural and non-linear optical properties of LiNaSO4. Journal of Luminescence, 2008, 128, 1025-1028.	3.1	2
97	Strong ion migration in high refractive index contrast waveguides formed by femtosecond laser pulses in phosphate glass. , 2014, , .		2
98	New strategies for luminescence thermometry in the biological range using upconverting nanoparticles. , 2014, , .		2
99	Eu3+ luminescent ions detect water density anomaly. Journal of Luminescence, 2020, 223, 117263.	3.1	2
100	Avoiding induced heating in optical trap. , 2017, , .		2
101	Growth of Nanocrystals in a Nd³⁺â€“Yb³⁺ Codoped Oxyfluoride Glass by Laser Irradiation. Journal of Nanoscience and Nanotechnology, 2009, 9, 3771-3774.	0.9	1
102	Control of the local devitrification on oxyfluoride glass doped with Er3+ ions under diode laser irradiation. Journal of Applied Physics, 2010, 108, 103103.	2.5	1
103	Optical gain by upconversion in Tmâ€“Yb oxyfluoride glass ceramic. Applied Physics B: Lasers and Optics, 2011, 104, 237-240.	2.2	1
104	Microrheometric upconversion-based techniques for intracellular viscosity measurements. , 2017, , .		1
105	Femtosecond-laser inscription via local modification of the glass composition in phosphate glasses. , 2014, , .		0
106	Optical trapping at high temperature. , 2021, , .		0
107	New experimental results to clarify the sequence of phases of LiNH4SO4. Acta Crystallographica Section A: Foundations and Advances, 2007, 63, s223-s224.	0.3	0
108	Effects of Er3+and Yb3+doping on non-linear properties of double lithium sulfates. Acta Crystallographica Section A: Foundations and Advances, 2008, 64, C468-C468.	0.3	0