# Ll Martin

List of Publications by Year
in descending order



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|---|---|---|---|
| 48 papers | 895 citations | 430874 18 h-index | 501196 28 g-index |
| 49 all docs | 49 docs citations | 49 times ranked | 1193 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Characterization of Er3+ and Nd3+ doped Strontium Barium Niobate glass ceramic as temperature sensors. Optical Materials, 2011, 33, 742-745. | 3.6 | 104 |
| 2 | Relevance of radiative transfer processes on Nd3+ doped phosphate glasses for temperature sensing by means of the fluorescence intensity ratio technique. Sensors and Actuators B: Chemical, 2014, 195, 324-331. | 7.8 | 80 |
| 3 | Droplet optomechanics. Optica, 2016, 3, 175. | 9.3 | 52 |
| 4 | Experimental enhancement of the photocurrent in a solar cell using upconversion process in fluoroindate glasses exciting at 1480nm. Solar Energy Materials and Solar Cells, 2013, 116, 171-175. | 6.2 | 44 |
| 5 | Whispering gallery modes in a glass microsphere as a function of temperature. Optics Express, 2011, 19, 25792. | 3.4 | 39 |
| 6 | Liquid whispering-gallery-mode resonator as a humidity sensor. Optics Express, 2017, 25, 1165. | 3.4 | 38 |
| 7 | Water-walled microfluidics for high-optical finesse cavities. Nature Communications, 2016, 7, 10435. | 12.8 | 35 |
| 8 | Cavity optocapillaries. Optica, 2016, 3, 552. | 9.3 | 32 |
| 9 | Ripplon laser through stimulated emission mediated by water waves. Nature Photonics, 2016, 10, 758-761. | 31.4 | 28 |
| 10 | Microwave oscillator and frequency comb in a silicon optomechanical cavity with a full phononic bandgap. Nanophotonics, 2020, 9, 3535-3544. | 6.0 | 27 |
| 11 | Titania's radius and an upper limit on its atmosphere from the September 8, 2001 stellar occultation. Icarus, 2009, 199, 458-476. | 2.5 | 26 |
| 12 | Whispering-gallery modes in glass microspheres: optimization of pumping in a modified confocal microscope. Optics Letters, 2011, 36, 615. | 3.3 | 26 |
| 13 | Luminescent Nd<sup>3+</sup>â€Based Microresonators Working as Optical Vacuum Sensors. Advanced Optical Materials, 2020, 8, 2000678. | 7.3 | 25 |
| 14 | Er3+/Ho3+ codoped nanogarnet as an optical FIR based thermometer for a wide range of high and low temperatures. Journal of Alloys and Compounds, 2020, 847, 156541. | 5.5 | 24 |
| 15 | Tweezers controlled resonator. Optics Express, 2015, 23, 28914. | 3.4 | 22 |
| 16 | Local devitrification of Dy3+ doped Ba2TiSi2O8 glass by laser irradiation. Optical Materials, 2010, 33, 186-190. | 3.6 | 19 |
| 17 | Synthesis, characterization and optical spectroscopy of Eu3+ doped titanate nanotubes. Journal of Luminescence, 2011, 131, 2473-2477. | 3.1 | 19 |
| 18 | GdVO4:Er3+/Yb3+ nanocrystalline powder as fluorescence temperature sensor. Application to monitor the temperature of an electrical component. Sensors and Actuators A: Physical, 2019, 299, 111628. | 4.1 | 19 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | High pressure tuning of whispering gallery mode resonances in a neodymium-doped glass microsphere. Journal of the Optical Society of America B: Optical Physics, 2013, 30, 3254. | 2.1 | 18 |
| 20 | Optical properties of transparent Dy3+ doped Ba2TiSi2O8 glass ceramic. Optical Materials, 2011, 33, 738-741. | 3.6 | 16 |
| 21 | Pump and probe measurements of optical amplification at 584nm in dysprosium doped lithium niobate crystal. Optical Materials, 2010, 33, 196-199. | 3.6 | 15 |
| 22 | 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 |
| 23 | 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 |
| 24 | Laser emission in Nd<sup>3+</sup>doped bariumâ€“titaniumâ€“silicate microspheres under continuous and chopped wave pumping in a non-coupled pumping scheme. Laser Physics, 2013, 23, 075801. | 1.2 | 11 |
| 25 | Level-crossing and modal structure in microdroplet resonators. Optics Express, 2016, 24, 13134. | 3.4 | 11 |
| 26 | Nanocrystalline silicon optomechanical cavities. Optics Express, 2018, 26, 9829. | 3.4 | 11 |
| 27 | Energy transfer processes in Eu3+ doped nanocrystalline La2TeO6 phosphor. Journal of Luminescence, 2014, 145, 553-556. | 3.1 | 10 |
| 28 | Conservation of photon rate in endothermic photoluminescence and its transition to thermal emission. Optica, 2015, 2, 585. | 9.3 | 10 |
| 29 | Cavity optofluidics: a Î¼dropletâ€™s whispering-gallery mode makes a Î¼vortex. Optics Express, 2018, 26, 19115 | 3.4 | 10 |
| 30 | Transfer and backtransfer processes in Yb3+â€“Er3+ codoped Strontium Barium Niobate glass-ceramics. Journal of Luminescence, 2011, 131, 2446-2450. | 3.1 | 9 |
| 31 | Study of the focusing effect of silica microspheres on the upconversion of Er3+â€“Yb3+ codoped glass ceramics. Journal of Alloys and Compounds, 2013, 576, 363-368. | 5.5 | 9 |
| 32 | Astro-comb calibrator and spectrograph characterization using a turn-key laser frequency comb. Journal of Astronomical Telescopes, Instruments, and Systems, 2017, 3, 1. | 1.8 | 9 |
| 33 | Regular oscillations and random motion of glass microspheres levitated by a single optical beam in air. Optics Express, 2016, 24, 2850. | 3.4 | 8 |
| 34 | Fluorescence intensity ratio and whispering gallery mode techniques in optical temperature sensors: comparative study. Optical Materials Express, 2019, 9, 4126. | 3.0 | 8 |
| 35 | 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 |
| 36 | Local characterization of rare-earth-doped single microspheres by combined microtransmission and microphotoluminescence techniques. Journal of the Optical Society of America B: Optical Physics, 2012, 29, 3293. | 2.1 | 7 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 37 | Microspheres with Atomic-Scale Tolerances Generate Hyperdegeneracy. Physical Review X, 2020, 10, . | 8.9 | 7 |
| 38 | Nanocrystal formation using laser irradiation on Nd3+ doped barium titanium silicate glasses. Journal of Alloys and Compounds, 2013, 553, 35-39. | 5.5 | 6 |
| 39 | Light and Capillary Waves Propagation in Water Fibers. Scientific Reports, 2017, 7, 16633. | 3.3 | 6 |
| 40 | Optical binding in white light. Optics Letters, 2015, 40, 1818. | 3.3 | 5 |
| 41 | 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 |
| 42 | Crystallization effect on Tm3+â€“Yb3+ codoped SBN glass ceramics. Optical Materials, 2010, 32, 1385-1388. | 3.6 | 4 |
| 43 | Temperature Sensing with Nd3+ Doped YAS Laser Microresonators. Applied Sciences (Switzerland), 2021, 11, 1117. | 2.5 | 4 |
| 44 | Formation of Nd3+ doped Strontium Barium Niobate nanocrystals by two different methods. Optical Materials, 2010, 32, 1389-1392. | 3.6 | 3 |
| 45 | Thermo-optic response of MEH-PPV films incorporated to monolithic Fabry-Perot microresonators. Dyes and Pigments, 2020, 182, 108625. | 3.7 | 1 |
| 46 | Clustering of Aerosols in a Single Potential-well Trap. , 2013, , . | | 0 |
| 47 | Optical refrigeration for ultra-efficient photovoltaics. , 2015, , . | | 0 |
| 48 | Design and Fabrication of an Optical Fiber Made of Water. Journal of Visualized Experiments, 2018, , . | 0.3 | 0 |