# Alessandro Lauria

List of Publications by Year
in descending order



| 66 | 1,461 | 394286 | 330025 |
|---|---|---|---|
| papers | citations | 19 h-index | 37 g-index |

| 68 | 68 | 68 | 2233 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Synthesis and luminescence of Cs<sub>2</sub>HfCl<sub>6</sub> micro- and Cs<sub>2</sub>HfF<sub>6</sub> nanoparticles. Journal of Materials Chemistry C, 2022, 10, 4383-4392. | 2.7 | 6 |
| 2 | Charge Compensation in Europium-Doped Hafnia Nanoparticles: Solvothermal Synthesis and Colloidal Dispersion. Crystals, 2021, 11, 1042. | 1.0 | 2 |
| 3 | Heat-Induced Transformation of Luminescent, Size Tuneable, Anisotropic Eu:Lu(OH)2Cl Microparticles to Micro-Structurally Controlled Eu:Lu2O3 Microplatelets. Crystals, 2021, 11, 992. | 1.0 | 0 |
| 4 | The Bright Xâ€Ray Stimulated Luminescence of HfO<sub>2</sub> Nanocrystals Activated by Ti Ions. Advanced Optical Materials, 2020, 8, 1901348. | 3.6 | 13 |
| 5 | Transparent Nacreâ€like Composites Toughened through Mineral Bridges. Advanced Functional Materials, 2020, 30, 2002149. | 7.8 | 24 |
| 6 | Luminescent carbon dots obtained from polymeric waste. Journal of Cleaner Production, 2020, 262, 121288. | 4.6 | 29 |
| 7 | Transparent and tough bulk composites inspired by nacre. Nature Communications, 2019, 10, 2794. | 5.8 | 109 |
| 8 | Demonstration of cellular imaging by using luminescent and anti-cytotoxic europium-doped hafnia nanocrystals. Nanoscale, 2018, 10, 7933-7940. | 2.8 | 24 |
| 9 | Radio-luminescence spectral features and fast emission in hafnium dioxide nanocrystals. Physical Chemistry Chemical Physics, 2018, 20, 15907-15915. | 1.3 | 10 |
| 10 | Probing Solventâ€“Ligand Interactions in Colloidal Nanocrystals by the NMR Line Broadening. Chemistry of Materials, 2018, 30, 5485-5492. | 3.2 | 117 |
| 11 | Tracking of Short Distance Transport Pathways in Biological Tissues by Ultra-Small Nanoparticles. Frontiers in Chemistry, 2018, 6, 28. | 1.8 | 16 |
| 12 | Nonaqueous Solâ€“Gel Synthesis of Anatase Nanoparticles and Their Electrophoretic Deposition in Porous Alumina. Langmuir, 2017, 33, 12404-12418. | 1.6 | 14 |
| 13 | Size-Dependent Luminescence in HfO<sub>2</sub> Nanocrystals: Toward White Emission from Intrinsic Surface Defects. Chemistry of Materials, 2016, 28, 3245-3253. | 3.2 | 54 |
| 14 | Diffusion-driven and size-dependent phase changes of gallium oxide nanocrystals in a glassy host. Physical Chemistry Chemical Physics, 2015, 17, 5141-5150. | 1.3 | 11 |
| 15 | Non-aqueous solâ€“gel synthesis of hybrid rare-earth-doped Î³-Ga<sub>2</sub>O<sub>3</sub>nanoparticles with multiple organicâ€“inorganic-ionic light-emission features. Journal of Materials Chemistry C, 2015, 3, 41-45. | 2.7 | 27 |
| 16 | 25th Anniversary Article: Metal Oxide Particles in Materials Science: Addressing All Length Scales. Advanced Materials, 2014, 26, 235-257. | 11.1 | 112 |
| 17 | Multifunctional microparticles with uniform magnetic coatings and tunable surface chemistry. RSC Advances, 2014, 4, 62483-62491. | 1.7 | 17 |
| 18 | Influence of carbon enrichment on electrical conductivity and processing of polycarbosilane derived ceramic for MEMS applications. Journal of the European Ceramic Society, 2014, 34, 3559-3570. | 2.8 | 61 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Multifunctional Role of Rare Earth Doping in Optical Materials: Nonaqueous Solâ€“Gel Synthesis of Stabilized Cubic HfO<sub>2</sub> Luminescent Nanoparticles. ACS Nano, 2013, 7, 7041-7052. | 7.3 | 84 |
| 20 | Trapping states and excited state ionization of the Ce3+ activator in the SrHfO3 host. Chemical Physics Letters, 2013, 556, 89-93. | 1.2 | 7 |
| 21 | Eu Incorporation into Solâ€“Gel Silica for Photonic Applications: Spectroscopic and TEM Evidences of Î±-Quartz and Eu Pyrosilicate Nanocrystal Growth. Journal of Physical Chemistry C, 2013, 117, 26831-26848. | 1.5 | 12 |
| 22 | Solâ€“Gel Strategy for Self-Induced Fluorination and Dehydration of Silica with Extended Vacuum Ultraviolet Transmittance and Radiation Hardness. Chemistry of Materials, 2012, 24, 677-681. | 3.2 | 14 |
| 23 | Fully inorganic oxide-in-oxide ultraviolet nanocrystal light emitting devices. Nature Communications, 2012, 3, 690. | 5.8 | 56 |
| 24 | Incorporation of Ce3+ in crystalline Gd-silicate nanoclusters formed in silica. Journal of Luminescence, 2012, 132, 461-466. | 1.5 | 28 |
| 25 | Acetateâ€“citrate gel combustion: a strategy for the synthesis of nanosized lutetium hafnate phosphor powders. Journal of Materials Chemistry, 2011, 21, 8975. | 6.7 | 6 |
| 26 | Study of the absorption edge of SnO2 nanoparticles embedded in silica films. Journal of Non-Crystalline Solids, 2011, 357, 1888-1891. | 1.5 | 5 |
| 27 | Role of sol-gel networking and fluorine doping in the silica Urbach energy. Journal of Non-Crystalline Solids, 2011, 357, 1838-1841. | 1.5 | 8 |
| 28 | Prompt and delayed recombination mechanisms in Lu4Hf3O12 nanophosphors. Optical Materials, 2011, 34, 228-233. | 1.7 | 9 |
| 29 | Tunable Dielectric Function in Electricâ€Responsive Glass with Treeâ€Like Percolating Pathways of Chargeable Conductive Nanoparticles. Advanced Functional Materials, 2010, 20, 3511-3518. | 7.8 | 6 |
| 30 | Tunable Dielectric Function in Electric-Responsive Glass with Tree-Like Percolating Pathways of Chargeable Conductive Nanoparticles. Advanced Functional Materials, 2010, 20, 3510-3510. | 7.8 | 3 |
| 31 | Structure and morphology of scintillating Ce- and Pb-doped strontium hafnate powders. Optical Materials, 2010, 32, 1356-1359. | 1.7 | 16 |
| 32 | Thermally-induced ionization of the Ce3+ excited state in SrHfO3 microcrystalline phosphor. Optical Materials, 2010, 33, 149-152. | 1.7 | 15 |
| 33 | Vibrational spectroscopy of silica glasses doped with Eu3+ions. IOP Conference Series: Materials Science and Engineering, 2010, 15, 012033. | 0.3 | 1 |
| 34 | Evidences of Rare-Earth Nanophases Embedded in Silica Using Vibrational Spectroscopy. IEEE Transactions on Nuclear Science, 2010, 57, 1361-1369. | 1.2 | 14 |
| 35 | Intrinsic and impurity-induced emission bands in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>SrHfO</mml:mtext></mml:mrow><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>Physical Review B, 2010, 82, . | 1.1 | 16 |
| 36 | Optical and Structural Properties of Pb and Ce Doped ${hbox {SrHfO}}_{3}$ Powders. IEEE Transactions on Nuclear Science, 2010, 57, 1245-1250. | 1.2 | 19 |

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|---|---|---|---|
| 37 | Correction to â€œEvidences of Rare-Earth Nanophases Embedded in Silica Using Vibrational Spectroscopyâ€•[Jun 10 1361-1369. IEEE Transactions on Nuclear Science, 2010, 57, 2405-2405. | 1.2 | 0 |
| 38 | Influence of Treatment Conditions on the Chemical Oxidative Activity of H<sub>2</sub>SO<sub>4</sub>/H<sub>2</sub>O<sub>2</sub> Mixtures for Modulating the Topography of Titanium. Advanced Engineering Materials, 2009, 11, B227. | 1.6 | 35 |
| 39 | Optical activity of Sn-variants of oxygen deficient centers in fluorine-modified silica. Journal of Non-Crystalline Solids, 2009, 355, 1024-1027. | 1.5 | 1 |
| 40 | Effect of reducing sintering atmosphere on Ce-doped solâ€“gel silica glasses. Journal of Non-Crystalline Solids, 2009, 355, 1140-1144. | 1.5 | 46 |
| 41 | Raman study of fluorine effects on silica with embedded SnO2 nanoparticles. Journal of Non-Crystalline Solids, 2009, 355, 1149-1151. | 1.5 | 2 |
| 42 | Ce-doped SiO 2 optical fibers for remote radiation sensing and measurement. , 2009, , . | | 9 |
| 43 | Confined diffusion of erbium excitations inSnO2nanoparticles embedded in silica: A time-resolved infrared luminescence study. Physical Review B, 2009, 79, . | 1.1 | 17 |
| 44 | Erbium-induced blurring of the fractal surface of SnO2 nanocrystals grown in silica. Journal of Nanoparticle Research, 2008, 10, 737-743. | 0.8 | 5 |
| 45 | Ge nanoparticles growth in Ge-doped sol-gel silica by e-beam exposure. , 2008, , . | | 0 |
| 46 | Nanostructured SnO 2 -SiO 2 glassceramic thin films as electroluminescent material: an impedance spectroscopy analysis. Proceedings of SPIE, 2007, , . | 0.8 | 1 |
| 47 | Light emission and structural properties of undoped and erbium-doped nanostructured silica with SnO 2 nanoparticles. Proceedings of SPIE, 2007, , . | 0.8 | 0 |
| 48 | FTIR spectroscopy to investigate the role of fluorine on the optical properties of pure and rare earth-doped solâ€“gel silica. Journal of Non-Crystalline Solids, 2007, 353, 564-567. | 1.5 | 4 |
| 49 | Luminescence and defects of Yb3+-doped solâ€“gel silica glasses. Journal of Non-Crystalline Solids, 2007, 353, 486-489. | 1.5 | 4 |
| 50 | High-energy shift of the Urbach ultraviolet absorption from attenuated dynamical disorder in fluorine modified sol-gel silica. Applied Physics Letters, 2007, 91, . | 1.5 | 17 |
| 51 | Solâ€“gel synthesis of Ge nanophases in silica. Solid State Communications, 2007, 144, 429-432. | 0.9 | 5 |
| 52 | Radio-luminescence efficiency and rare-earth dispersion in Tb-doped silica glasses. Radiation Measurements, 2007, 42, 784-787. | 0.7 | 8 |
| 53 | A crystal-field study of erbium oxide and fluoride. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 1209-1212. | 0.8 | 10 |
| 54 | Native and radiation-induced two-fold coordinated sites in nanostructured SnO2:SiO2. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 822-825. | 0.8 | 1 |

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|---|---|---|---|
| 55 | Effect of deep traps on the optical properties of Tb3+ doped sol-gel silica. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 1056-1059. | 0.8 | 15 |
| 56 | Optical absorption spectra of Fe<sup>2+</sup> and Fe<sup>3+</sup> in aqueous solutions and hydrated crystals. Physica Status Solidi (B): Basic Research, 2007, 244, 4669-4677. | 0.7 | 39 |
| 57 | Growth of SnO2nanocrystals controlled by erbium doping in silica. Nanotechnology, 2006, 17, 4031-4036. | 1.3 | 26 |
| 58 | Ultraviolet free-exciton light emission in Er-passivated SnO2 nanocrystals in silica. Applied Physics Letters, 2006, 89, 153126. | 1.5 | 41 |
| 59 | Ce-doped SiO 2 glass as scintillating material: variation on the synthesis procedure for the improvement of material properties. , 2006, , . | | 0 |
| 60 | Kinetics of luminescence of interface defects and resonant Er3+ ions in nanostructured SnO2:SiO2. Solid State Communications, 2006, 138, 574-576. | 0.9 | 15 |
| 61 | SnO2 nanoparticles in silica: Nanosized tools for femtosecond-laser machining of refractive index patterns. Applied Physics Letters, 2006, 88, 131912. | 1.5 | 14 |
| 62 | Energy transfer to erbium ions from wide-band-gapSnO2nanocrystals in silica. Physical Review B, 2006, 73, . | 1.1 | 46 |
| 63 | Oxygen-deficiency effect on thermal poling of silica-based glasses. Solid State Communications, 2005, 136, 300-303. | 0.9 | 5 |
| 64 | Ce3+-doped fibers for remote radiation dosimetry. Applied Physics Letters, 2004, 85, 6356-6358. | 1.5 | 123 |
| 65 | SiO 2 -based scintillating fibers for x-ray detectors. , 2004, 5198, 298. | | 3 |
| 66 | Low-temperature radio- and thermo-stimulated luminescence of SnO2-doped silica. Journal of Non-Crystalline Solids, 2004, 345-346, 306-310. | 1.5 | 1 |