

Lucia Cavigli

List of Publications by Year in descending order

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74
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979
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430874

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77
docs citations

77
times ranked

1643
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Microbubble resonators for scattering-free absorption spectroscopy of nanoparticles. Optics Express, 2021, 29, 31130. | 3.4 | 6 |
| 2 | Photostability of Contrast Agents for Photoacoustics: The Case of Gold Nanorods. Nanomaterials, 2021, 11, 116. | 4.1 | 19 |
| 3 | Water-in-elastomer micro-emulsions as phantom materials in photoacoustic imaging and multimodal theranostics. , 2021, , . | | 0 |
| 4 | Plasmonic nanoparticles as contrast agents for photoacoustics: strategies to improve their photostability. , 2021, , . | | 0 |
| 5 | All-Optical Photoacoustic Sensing with Hollow Microresonators. , 2020, , . | | 0 |
| 6 | A bionic shuttle carrying multi-modular particles and holding tumor-tropic features. Materials Science and Engineering C, 2020, 117, 111338. | 7.3 | 5 |
| 7 | Small Thiols Stabilize the Shape of Gold Nanorods. Journal of Physical Chemistry C, 2020, 124, 11132-11140. | 3.1 | 16 |
| 8 | Optically activated and interrogated plasmonic hydrogels for applications in wound healing. Journal of Biophotonics, 2020, 13, e202000135. | 2.3 | 15 |
| 9 | Impact of Kapitza resistance on the stability and efficiency of photoacoustic conversion from gold nanorods. Journal of Colloid and Interface Science, 2020, 578, 358-365. | 9.4 | 12 |
| 10 | Microbubble Resonators for All-Optical Photoacoustics of Flowing Contrast Agents. Sensors, 2020, 20, 1696. | 3.8 | 11 |
| 11 | Fluorescence-Sensor Mapping for the in Vineyard Non-Destructive Assessment of Crimson Seedless Table Grape Quality. Sensors, 2020, 20, 983. | 3.8 | 6 |
| 12 | Hybrid organosilicon/polyol phantoms for applications in biophotonics and beyond. , 2020, , . | | 0 |
| 13 | New materials for laser welding of connective tissue and controlled release of antimicrobial principles. , 2020, , . | | 0 |
| 14 | Resonant Microbubble as a Microfluidic Stage for All-Optical Photoacoustic Sensing. Physical Review Applied, 2019, 12, . | 3.8 | 21 |
| 15 | 1064-nm resonant gold nanorods for photoacoustic theranostics within permissible exposure limits. Journal of Biophotonics, 2019, 12, e201900082. | 2.3 | 19 |
| 16 | Hybrid organosilicon/polyol phantom for photoacoustic imaging. Biomedical Optics Express, 2019, 10, 3719. | 2.9 | 10 |
| 17 | Light-activated microbubbles around gold nanorods for photoacoustic microsurgery. , 2018, , . | | 2 |
| 18 | Blue LED treatment of superficial abrasions: in vivo experimental evidence of wound healing improvement. , 2018, , . | | 1 |

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|----|---|------|-----------|
| 19 | Photostability of Gold Nanorods upon Endosomal Confinement in Cultured Cells. Journal of Physical Chemistry C, 2017, 121, 6393-6400. | 3.1 | 22 |
| 20 | Light activated microbubbles for imaging and microsurgery. , 2017, , . | | 3 |
| 21 | Light and ultrasound activated microbubbles around gold nanorods for photoacoustic microsurgery. , 2017, , . | | 3 |
| 22 | A multifunctional organosilica cross-linker for the bio-conjugation of gold nanorods. Colloids and Surfaces B: Biointerfaces, 2017, 157, 174-181. | 5.0 | 19 |
| 23 | Temperature activated coupling in topologically distinct semiconductor nanostructures. Journal of Applied Physics, 2016, 120, 134312. | 2.5 | 4 |
| 24 | A Robust Design for Cellular Vehicles of Gold Nanorods for Multimodal Imaging. Advanced Functional Materials, 2016, 26, 7178-7185. | 14.9 | 33 |
| 25 | Novel organosilicon phantoms as testing material for photoacoustic imaging. Proceedings of SPIE, 2016, , . | 0.8 | 0 |
| 26 | Preparation and Photoacoustic Analysis of Cellular Vehicles Containing Gold Nanorods. Journal of Visualized Experiments, 2016, , . | 0.3 | 4 |
| 27 | Optically induced microbubbles around gold nanorods: the influence of particle parameters and environment on cavitation threshold. , 2016, , . | | 0 |
| 28 | Feasibility of plasmonic cellular vehicles for photoacoustic applications. , 2015, , . | | 0 |
| 29 | Influence of gold nanorods environment on photoacoustic conversion. , 2015, , . | | 1 |
| 30 | Pattern of distribution and kinetics of accumulation of gold nanorods in mouse spleen. , 2015, , . | | 0 |
| 31 | The influence of cellular uptake on gold nanorods photostability and photoacoustic conversion efficiency. , 2015, , . | | 2 |
| 32 | Organosilicon phantom for photoacoustic imaging. Journal of Biomedical Optics, 2015, 20, 046008. | 2.6 | 30 |
| 33 | Phantom studies with gold nanorods as contrast agents for photoacoustic imaging: novel and old approaches. Proceedings of SPIE, 2015, , . | 0.8 | 1 |
| 34 | Opportunities with light-responsive plasmonic nanomaterials and graphene in therapy and sensing. , 2015, , . | | 0 |
| 35 | Size Affects the Stability of the Photoacoustic Conversion of Gold Nanorods. Journal of Physical Chemistry C, 2014, 118, 16140-16146. | 3.1 | 45 |
| 36 | Graphene as a photothermal switch for controlled drug release. Nanoscale, 2014, 6, 7947. | 5.6 | 49 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 37 | Large-kexciton dynamics in GaN epilayers: Nonthermal and thermal regimes. Physical Review B, 2013, 87, . | 3.2 | 9 |
| 38 | Kinetics of multiexciton complex in GaAs quantum dots on Si. Applied Physics Letters, 2013, 102, 053109. | 3.3 | 7 |
| 39 | Effects of As pressure on the quality of GaAs/AlGaAs quantum dots grown on silicon by droplet epitaxy. Journal of Crystal Growth, 2013, 378, 497-500. | 1.5 | 1 |
| 40 | High quality GaAs single photon emitters on Si substrate. , 2013, , . | | 0 |
| 41 | Optimization of the photoacoustic conversion of gold nanorods embedded in biopolymeric scaffolds. , 2013, , . | | 1 |
| 42 | Photoacoustic stability of gold nanorods embedded in biopolymeric scaffolds. , 2013, , . | | 0 |
| 43 | High temperature single photon emitter monolithically integrated on silicon. Applied Physics Letters, 2012, 100, . | 3.3 | 34 |
| 44 | Single photon emission from impurity centers in AlGaAs epilayers on Ge and Si substrates. Applied Physics Letters, 2012, 101, . | 3.3 | 4 |
| 45 | Fast emission dynamics in droplet epitaxy GaAs ring-disk nanostructures integrated on Si. Journal of Physics Condensed Matter, 2012, 24, 104017. | 1.8 | 4 |
| 46 | Hybrid nanocomposite films for laser-activated tissue bonding. Journal of Biophotonics, 2012, 5, 868-877. | 2.3 | 37 |
| 47 | Ultra-large tuning of photonic modes for efficient Er-doped silicon-based emitters. Photonics and Nanostructures - Fundamentals and Applications, 2012, 10, 547-552. | 2.0 | 0 |
| 48 | High quality GaAs quantum nanostructures grown by droplet epitaxy on Ge and Ge-on-Si substrates. Physica Status Solidi C: Current Topics in Solid State Physics, 2012, 9, 202-205. | 0.8 | 0 |
| 49 | InAs Epitaxy on GaAs(001): A Model Case of Strain-Driven Self-assembling of Quantum Dots. , 2012, , 73-125. | | 3 |
| 50 | Micro-photoluminescence of GaAs/AlGaAs triple concentric quantum rings. Nanoscale Research Letters, 2011, 6, 569. | 5.7 | 8 |
| 51 | Individual GaAs quantum emitters grown on Ge substrates. Applied Physics Letters, 2011, 98, . | 3.3 | 18 |
| 52 | Carrier recombination dynamics in anatase TiO2 nanoparticles. Solid State Sciences, 2010, 12, 1877-1880. | 3.2 | 16 |
| 53 | Photo-coercivity of Nano-stabilized Au:Fe Superparamagnetic Nanoparticles. Advanced Materials, 2010, 22, 4054-4058. | 21.0 | 39 |
| 54 | Quantum confinement effects in hydrogen-intercalated Ga _{1-x} As _x N _x -GaAs _{1-x} N _x :H planar heterostructures investigated by photoluminescence spectroscopy. Physical Review B, 2010, 81, . | 3.2 | 8 |

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|----|--|------|-----------|
| 55 | Probing exciton density of states through phonon-assisted emission in GaN epilayers: $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ and $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ exciton contributions. <i>Physical Review B</i> , 2010, 82, . | 3.2 | 5 |
| 56 | Coupling between magnetic and optical properties of stable Au-Fe solid solution nanoparticles. <i>Nanotechnology</i> , 2010, 21, 165701. | 2.6 | 36 |
| 57 | Selective growth of InAs quantum dots on SiO ₂ -masked GaAs. <i>Journal of Nanophotonics</i> , 2009, 3, 031995. | 1.0 | 3 |
| 58 | Volume versus surface-mediated recombination in anatase TiO ₂ nanoparticles. <i>Journal of Applied Physics</i> , 2009, 106, 053516. | 2.5 | 52 |
| 59 | Purcell effect in micropillars with oxidized Bragg mirrors. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2008, 5, 2433-2436. | 0.8 | 0 |
| 60 | Magneto-photoluminescence study in single GaAs/AlGaAs self-assembled quantum dot. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008, 40, 1982-1984. | 2.7 | 2 |
| 61 | Magneto-optical studies on the molecular cluster Fe ₄ in different polymeric environments. <i>Inorganica Chimica Acta</i> , 2008, 361, 3970-3974. | 2.4 | 9 |
| 62 | Optically addressable single molecule magnet behaviour of vacuum-sprayed ultrathin films. <i>Journal of Materials Chemistry</i> , 2008, 18, 109-115. | 6.7 | 26 |
| 63 | Single quantum dot emission by nanoscale selective growth of InAs on GaAs: A bottom-up approach. <i>Applied Physics Letters</i> , 2008, 93, 231904. | 3.3 | 10 |
| 64 | Photoluminescence of individual doped GaAs/AlGaAs nanofabricated quantum dots. <i>Applied Physics Letters</i> , 2007, 90, 181902. | 3.3 | 20 |
| 65 | Magneto-Optical Investigations of Nanostructured Materials Based on Single-Molecule Magnets Monitor Strong Environmental Effects. <i>Advanced Materials</i> , 2007, 19, 3906-3911. | 21.0 | 78 |
| 66 | Magneto-optical detection of the relaxation dynamics of alloy nanoparticles with a high-stability magnetic circular dichroism setup. <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 316, e798-e801. | 2.3 | 8 |
| 67 | Evidence of intermolecular π -stacking enhancement of second-harmonic generation in a family of single chain magnets. <i>Journal of Materials Chemistry</i> , 2006, 16, 2587-2592. | 6.7 | 74 |
| 68 | Second harmonic generation in a molecular magnetic chain. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2006, 203, 1402-1408. | 1.8 | 8 |
| 69 | Optical bistability and laserlike emission in a semiconductor microcavity. <i>Physical Review B</i> , 2005, 71, . | 3.2 | 8 |
| 70 | Weak Localization of Light in a Disordered Microcavity. <i>Physical Review Letters</i> , 2005, 94, 183901. | 7.8 | 47 |
| 71 | Bistable optical response in quantum well semiconductor microcavity. <i>Semiconductor Science and Technology</i> , 2004, 19, S345-S347. | 2.0 | 10 |
| 72 | Experimental evidence of bistability in a semiconductor microcavity. <i>Physica Status Solidi A</i> , 2004, 201, 661-664. | 1.7 | 5 |

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| 73 | Non-linear resonant Rayleigh scattering from microcavity. Physica E: Low-Dimensional Systems and Nanostructures, 2003, 17, 463-464. | 2.7 | 5 |
| 74 | Photon Correlation in GaAs Self-Assembled Quantum Dots. Applied Physics Express, 0, 1, 042001. | 2.4 | 23 |