Lucia Cavigli

List of Publications by Year
in descending order

74 papers	979 citations	430874 18 h-index	477307 29 g-index
77 all docs	77 docs citations	77 times ranked	1643 citing authors

#	Article	IF	Citations
1	Magnetoâ€Optical Investigations of Nanostructured Materials Based on Singleâ€Molecule Magnets Monitor Strong Environmental Effects. Advanced Materials, 2007, 19, 3906-3911.	21.0	78
2	Evidence of intermolecular Ï€-stacking enhancement of second-harmonic generation in a family of single chain magnets. Journal of Materials Chemistry, 2006, 16, 2587-2592.	6.7	74
3	Volume versus surface-mediated recombination in anatase TiO2 nanoparticles. Journal of Applied Physics, 2009, 106, 053516.	2.5	52
4	Graphene as a photothermal switch for controlled drug release. Nanoscale, 2014, 6, 7947.	5.6	49
5	Weak Localization of Light in a Disordered Microcavity. Physical Review Letters, 2005, 94, 183901.	7.8	47
6	Size Affects the Stability of the Photoacoustic Conversion of Gold Nanorods. Journal of Physical Chemistry C, 2014, 118, 16140-16146.	3.1	45
7	Photocoercivity of Nanoâ€Stabilized Au:Fe Superparamagnetic Nanoparticles. Advanced Materials, 2010, 22, 4054-4058.	21.0	39
8	Hybrid nanocomposite films for laserâ€activated tissue bonding. Journal of Biophotonics, 2012, 5, 868-877.	2.3	37
9	Coupling between magnetic and optical properties of stable Auâ€“Fe solid solution nanoparticles. Nanotechnology, 2010, 21, 165701.	2.6	36
10	High temperature single photon emitter monolithically integrated on silicon. Applied Physics Letters, 2012, 100, .	3.3	34
11	A Robust Design for Cellular Vehicles of Gold Nanorods for Multimodal Imaging. Advanced Functional Materials, 2016, 26, 7178-7185.	14.9	33
12	Organosilicon phantom for photoacoustic imaging. Journal of Biomedical Optics, 2015, 20, 046008.	2.6	30
13	Optically addressable single molecule magnet behaviour of vacuum-sprayed ultrathin films. Journal of Materials Chemistry, 2008, 18, 109-115.	6.7	26
14	Photon Correlation in GaAs Self-Assembled Quantum Dots. Applied Physics Express, 0, 1, 042001.	2.4	23
15	Photostability of Gold Nanorods upon Endosomal Confinement in Cultured Cells. Journal of Physical Chemistry C, 2017, 121, 6393-6400.	3.1	22
16	Resonant Microbubble as a Microfluidic Stage for All-Optical Photoacoustic Sensing. Physical Review Applied, 2019, 12, .	3.8	21
17	Photoluminescence of individual doped GaAsâˆ•AlGaAs nanofabricated quantum dots. Applied Physics Letters, 2007, 90, 181902.	3.3	20
18	1064â€nmâ€resonant gold nanorods for photoacoustic theranostics within permissible exposure limits. Journal of Biophotonics, 2019, 12, e201900082.	2.3	19

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19	Photostability of Contrast Agents for Photoacoustics: The Case of Gold Nanorods. Nanomaterials, 2021, 11, 116.	4.1	19
20	A multifunctional organosilica cross-linker for the bio-conjugation of gold nanorods. Colloids and Surfaces B: Biointerfaces, 2017, 157, 174-181.	5.0	19
21	Individual GaAs quantum emitters grown on Ge substrates. Applied Physics Letters, 2011, 98, .	3.3	18
22	Carrier recombination dynamics in anatase TiO2 nanoparticles. Solid State Sciences, 2010, 12, 1877-1880.	3.2	16
23	Small Thiols Stabilize the Shape of Gold Nanorods. Journal of Physical Chemistry C, 2020, 124, 11132-11140.	3.1	16
24	Optically activated and interrogated plasmonic hydrogels for applications in wound healing. Journal of Biophotonics, 2020, 13, e202000135.	2.3	15
25	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
26	Microbubble Resonators for All-Optical Photoacoustics of Flowing Contrast Agents. Sensors, 2020, 20, 1696.	3.8	11
27	Bistable optical response in quantum well semiconductor microcavity. Semiconductor Science and Technology, 2004, 19, S345-S347.	2.0	10
28	Single quantum dot emission by nanoscale selective growth of InAs on GaAs: A bottom-up approach. Applied Physics Letters, 2008, 93, 231904.	3.3	10
29	Hybrid organosilicon/polyol phantom for photoacoustic imaging. Biomedical Optics Express, 2019, 10, 3719.	2.9	10
30	Magneto-optical studies on the molecular cluster Fe4 in different polymeric environments. Inorganica Chimica Acta, 2008, 361, 3970-3974.	2.4	9
31	Large-kexciton dynamics in GaN epilayers: Nonthermal and thermal regimes. Physical Review B, 2013, 87, .	3.2	9
32	Optical bistability and laserlike emission in a semiconductor microcavity. Physical Review B, 2005, 71, .	3.2	8
33	Second harmonic generation in a molecular magnetic chain. Physica Status Solidi (A) Applications and Materials Science, 2006, 203, 1402-1408.	1.8	8
34	Magneto-optical detection of the relaxation dynamics of alloy nanoparticles with a high-stability magnetic circular dichroism setup. Journal of Magnetism and Magnetic Materials, 2007, 316, e798-e801.	2.3	8
35	Quantum confinement effects in hydrogen-intercalatedGa1â^'xAsxNx-GaAs1â^'xNx:Hplanar heterostructures investigated by photoluminescence spectroscopy. Physical Review B, 2010, 81, .	3.2	8
36	Micro-photoluminescence of GaAs/AlGaAs triple concentric quantum rings. Nanoscale Research Letters, 2011, 6, 569.	5.7	8

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37	Kinetics of multiexciton complex in GaAs quantum dots on Si. Applied Physics Letters, 2013, 102, 053109.	3.3	7
38	Fluorescence-Sensor Mapping for the in Vineyard Non-Destructive Assessment of Crimson Seedless Table Grape Quality. Sensors, 2020, 20, 983.	3.8	6
39	Microbubble resonators for scattering-free absorption spectroscopy of nanoparticles. Optics Express, 2021, 29, 31130.	3.4	6
40	Non-linear resonant Rayleigh scattering from microcavity. Physica E: Low-Dimensional Systems and Nanostructures, 2003, 17, 463-464.	2.7	5
41	Experimental evidence of bistability in a semiconductor microcavity. Physica Status Solidi A, 2004, 201, 661-664.	1.7	5
42	Probing exciton density of states through phonon-assisted emission in GaN epilayers:<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>A</mml:mi></mml:math>and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>B</mml:mi></mml:math>exciton contributions. Physical Review B, 2010, 82, .	3.2	5
43	A bionic shuttle carrying multi-modular particles and holding tumor-tropic features. Materials Science and Engineering C, 2020, 117, 111338.	7.3	5
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	Temperature activated coupling in topologically distinct semiconductor nanostructures. Journal of Applied Physics, 2016, 120, 134312.	2.5	4
47	Preparation and Photoacoustic Analysis of Cellular Vehicles Containing Gold Nanorods. Journal of Visualized Experiments, 2016, , .	0.3	4
48	Selective growth of InAs quantum dots on SiO₂-masked GaAs. Journal of Nanophotonics, 2009, 3, 031995.	1.0	3
49	Light activated microbubbles for imaging and microsurgery. , 2017, , .		3
50	Light and ultrasound activated microbubbles around gold nanorods for photoacoustic microsurgery. , 2017, , .		3
51	InAs Epitaxy on GaAs(001): A Model Case of Strain-Driven Self-assembling of Quantum Dots. , 2012, , 73-125.		3
52	Magneto-photoluminescence study in single GaAs/AlGaAs self-assembled quantum dot. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 1982-1984.	2.7	2
53	The influence of cellular uptake on gold nanorods photostability and photoacoustic conversion efficiency. , 2015, , .		2
54	Light-activated microbubbles around gold nanorods for photoacoustic microsurgery. , 2018, , .		2

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55	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
56	Optimization of the photoacoustic conversion of gold nanorods embedded in biopolymeric scaffolds. , 2013, , .		1
57	Influence of gold nanorods environment on photoacoustic conversion. , 2015, , .		1
58	Phantom studies with gold nanorods as contrast agents for photoacoustic imaging: novel and old approaches. Proceedings of SPIE, 2015, , .	0.8	1
59	Blue LED treatment of superficial abrasions: in vivo experimental evidence of wound healing improvement. , 2018, , .		1
60	Purcell effect in micropillars with oxidized Bragg mirrors. Physica Status Solidi C: Current Topics in Solid State Physics, 2008, 5, 2433-2436.	0.8	0
61	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
62	High quality GaAs quantum nanostructures grown by droplet epitaxy on Ge and Geâ€onâ€Si substrates. Physica Status Solidi C: Current Topics in Solid State Physics, 2012, 9, 202-205.	0.8	0
63	High quality GaAs single photon emitters on Si substrate. , 2013, , .		0
64	Photoacoustic stability of gold nanorods embedded in biopolymeric scaffolds. , 2013, , .		0
65	Feasibility of plasmonic cellular vehicles for photoacoustic applications. , 2015, , .		0
66	Pattern of distribution and kinetics of accumulation of gold nanorods in mouse spleen. , 2015, , .		0
67	Opportunities with light-responsive plasmonic nanomaterials and graphene in therapy and sensing. , 2015, , .		0
68	Novel organosilicon phantoms as testing material for photoacoustic imaging. Proceedings of SPIE, 2016, , .	0.8	0
69	Optically induced microbubbles around gold nanorods: the influence of particle parameters and environment on cavitation threshold. , 2016, , .		0
70	All-Optical Photoacoustic Sensing with Hollow Microresonators. , 2020, , .		0
71	Hybrid organosilicon/polyol phantoms for applications in biophotonics and beyond. , 2020, , .		0
72	New materials for laser welding of connective tissue and controlled release of antimicrobial principles. , 2020, , .		0

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73	Water-in-elastomer micro-emulsions as phantom materials in photoacoustic imaging and multimodal theranostics. , 2021, , .		0
74	Plasmonic nanoparticles as contrast agents for photoacoustics: strategies to improve their photostability. , 2021, , .		0