Blanca del Rosal Rabes

List of Publications by Citations

51 papers	4,094 citations	32 h-index	54 g-index
54 ext. papers	4,823 ext. citations	8.9 avg, IF	5.52 L-index

#	Paper	IF	Citations
51	Nanoparticles for photothermal therapies. *Nanoscale*, **2014**, 6, 9494-530	7.7	1205
50	Intratumoral Thermal Reading During Photo-Thermal Therapy by Multifunctional Fluorescent Nanoparticles. *Advanced Functional Materials*, **2015**, 25, 615-626	15.6	224
49	Unveiling in Vivo Subcutaneous Thermal Dynamics by Infrared Luminescent Nanothermometers. *Nano Letters*, **2016**, 16, 1695-703	11.5	209
48	Nd:YAG Near-Infrared Luminescent Nanothermometers. *Advanced Optical Materials*, **2015**, 3, 687-694	8.1	203
47	In Vivo Luminescence Nanothermometry: from Materials to Applications. *Advanced Optical Materials*, **2017**, 5, 1600508	8.1	192
46	1.3 μm emitting SrF2:Nd3+ nanoparticles for high contrast in vivo imaging in the second biological window. *Nano Research*, **2015**, 8, 649-665	10	167
45	Hybrid nanostructures for high-sensitivity luminescence nanothermometry in the second biological window. *Advanced Materials*, **2015**, 27, 4781-7	24	149
44	Advances and challenges for fluorescence nanothermometry. *Nature Methods*, **2020**, 17, 967-980	21.6	112
43	Fluorescent nanothermometers for intracellular thermal sensing. *Nanomedicine*, **2014**, 9, 1047-62	5.6	104
42	PbS/CdS/ZnS Quantum Dots: A Multifunctional Platform for In Vivo Near-Infrared Low-Dose Fluorescence Imaging. *Advanced Functional Materials*, **2015**, 25, 6650-6659	15.6	98
41	Infrared-Emitting QDs for Thermal Therapy with Real-Time Subcutaneous Temperature Feedback. *Advanced Functional Materials*, **2016**, 26, 6060-6068	15.6	92
40	Heating efficiency of multi-walled carbon nanotubes in the first and second biological windows. *Nanoscale*, **2013**, 5, 7882-9	7.7	89
39	Lifetime-Encoded Infrared-Emitting Nanoparticles for in Vivo Multiplexed Imaging. *ACS Nano*, **2018**, 12, 4362-4368	16.7	88
38	Neodymium-doped nanoparticles for infrared fluorescence bioimaging: The role of the host. *Journal of Applied Physics*, **2015**, 118, 143104	2.5	86
37	Overcoming Autofluorescence: Long-Lifetime Infrared Nanoparticles for Time-Gated In Vivo Imaging. *Advanced Materials*, **2016**, 28, 10188-10193	24	83
36	Ag/Ag2S Nanocrystals for High Sensitivity Near-Infrared Luminescence Nanothermometry. *Advanced Functional Materials*, **2017**, 27, 1604629	15.6	73
35	In vivo autofluorescence in the biological windows: the role of pigmentation. *Journal of Biophotonics*, **2016**, 9, 1059-1067	3.1	71

34	Quantum dot-based thermal spectroscopy and imaging of optically trapped microspheres and single cells. *Small*, **2013**, 9, 2162-70	11	63
33	Rare-earth-doped fluoride nanoparticles with engineered long luminescence lifetime for time-gated in vivo optical imaging in the second biological window. *Nanoscale*, **2018**, 10, 17771-17780	7.7	57
32	Neodymium-Based Stoichiometric Ultrasmall Nanoparticles for Multifunctional Deep-Tissue Photothermal Therapy. *Advanced Optical Materials*, **2016**, 4, 782-789	8.1	54
31	In Vivo Early Tumor Detection and Diagnosis by Infrared Luminescence Transient Nanothermometry. *Advanced Functional Materials*, **2018**, 28, 1803924	15.6	54
30	In Vivo Ischemia Detection by Luminescent Nanothermometers. *Advanced Healthcare Materials*, **2017**, 6, 1601195	10.1	53
29	Optical trapping of NaYF4:Er3+,Yb3+ upconverting fluorescent nanoparticles. *Nanoscale*, **2013**, 5, 12192-9	7.7	50
28	Perspectives for AgS NIR-II nanoparticles in biomedicine: from imaging to multifunctionality. *Nanoscale*, **2019**, 11, 19251-19264	7.7	47
27	In Vivo Deep Tissue Fluorescence and Magnetic Imaging Employing Hybrid Nanostructures. *ACS Applied Materials & Interfaces*, **2016**, 8, 1406-14	9.5	47
26	In Vivo Contactless Brain Nanothermometry. *Advanced Functional Materials*, **2018**, 28, 1806088	15.6	46
25	Nd 3+ ions in nanomedicine: Perspectives and applications. *Optical Materials*, **2017**, 63, 185-196	3.3	45
24	Beyond Phototherapy: Recent Advances in Multifunctional Fluorescent Nanoparticles for Light-Triggered Tumor Theranostics. *Advanced Functional Materials*, **2018**, 28, 1803733	15.6	42
23	Upconversion nanoparticles for in vivo applications: limitations and future perspectives. *Methods and Applications in Fluorescence*, **2019**, 7, 022001	3.1	36
22	Monolithic crystalline cladding microstructures for efficient light guiding and beam manipulation in passive and active regimes. *Scientific Reports*, **2014**, 4, 5988	4.9	36
21	Ultrafast photochemistry produces superbright short-wave infrared dots for low-dose in vivo imaging. *Nature Communications*, **2020**, 11, 2933	17.4	33
20	Strategies to Overcome Autofluorescence in Nanoprobe-Driven In Vivo Fluorescence Imaging. *Small Methods*, **2018**, 2, 1800075	12.8	32
19	Femtosecond laser written waveguides with MoS_2 as satuable absorber for passively Q-switched lasing. *Optical Materials Express*, **2016**, 6, 367	2.6	27
18	Resilient Graphene Ultrathin Flat Lens in Aerospace, Chemical, and Biological Harsh Environments. *ACS Applied Materials & Interfaces*, **2019**, 11, 20298-20303	9.5	25
17	Development and Investigation of Ultrastable PbS/CdS/ZnS Quantum Dots for Near-Infrared Tumor Imaging. *Particle and Particle Systems Characterization*, **2017**, 34, 1600242	3.1	21

16	Continuous-wave lasing at 1.06□m in femtosecond laser written Nd:KGW waveguides. *Optical Materials*, **2014**, 37, 93-96	3.3	12
15	Waveguiding microstructures in Nd:YAG with cladding and inner dual-line configuration produced by femtosecond laser inscription. *Optical Materials*, **2015**, 39, 125-129	3.3	11
14	Thermal loading in flow-through electroporation microfluidic devices. *Lab on A Chip*, **2013**, 13, 3119-27	7.2	11
13	Flow effects in the laser-induced thermal loading of optical traps and optofluidic devices. *Optics Express*, **2014**, 22, 23938-54	3.3	11
12	NIR fluorescence quenching by OH acceptors in the Nd 3+ doped KY 3 F 10 nanoparticles synthesized by microwave-hydrothermal treatment. *Journal of Alloys and Compounds*, **2016**, 661, 312-321	5.7	9
11	The near-infrared autofluorescence fingerprint of the brain. *Journal of Biophotonics*, **2020**, 13, e202000154	3.1	5
10	Near-infrared light-responsive liposomes for protein delivery: Towards bleeding-free photothermally-assisted thrombolysis. *Journal of Controlled Release*, **2021**, 337, 212-223	11.7	5
9	Optical spectroscopy of Yb3+ centers in BaMgF4 ferroelectric crystal. *Journal of Applied Physics*, **2011**, 110, 063102	2.5	4
8	Near infrared bioimaging and biosensing with semiconductor and rare-earth nanoparticles: recent developments in multifunctional nanomaterials. *Nanoscale Advances*,	5.1	4
7	Heat in optical tweezers **2013**,		3
6	Nanoscale optical voltage sensing in biological systems. *Journal of Luminescence*, **2021**, 230, 117719	3.8	3
5	Smart Delivery of Plasminogen Activators for Efficient Thrombolysis; Recent Trends and Future Perspectives. *Advanced Therapeutics*, **2021**, 4, 2100047	4.9	2
4	NIR Autofluorescence: Molecular Origins and Emerging Clinical Applications **2020**, 21-47		1
3	Photothermal release and recovery of mesenchymal stem cells from substrates functionalized with gold nanorods. *Acta Biomaterialia*, **2021**, 129, 110-121	10.8	0
2	Tuning drug dosing through matching optically active polymer composition and NIR stimulation parameters. *International Journal of Pharmaceutics*, **2020**, 575, 118976	6.5	
1	Nanoparticles for In Vivo Lifetime Multiplexed Imaging. *Methods in Molecular Biology*, **2021**, 2350, 239-251	1.4	