Xavier Le Guevel

List of Publications by Year
in descending order

49 papers	2,877 citations	230014 27 h-index	252626 46 g-index
54 all docs	54 docs citations	54 times ranked	4443 citing authors

#	Article	IF	Citations
1	Tailoring the SWIR emission of gold nanoclusters by surface ligand rigidification and their application in 3D bioimaging. Chemical Communications, 2022, 58, 2967-2970.	2.2	10
2	Tailoring the NIRâ€‖ Photoluminescence of Single Thiolated Au₂₅ Nanoclusters by Selective Binding to Proteins**. Chemistry - A European Journal, 2022, 28, .	1.7	13
3	Cover Feature: Tailoring the NIRâ€‖ Photoluminescence of Single Thiolated Au₂₅ Nanoclusters by Selective Binding to Proteins (Chem. Eur. J. 39/2022). Chemistry - A European Journal, 2022, 28, .	1.7	0
4	Lethal Interactions of Atomically Precise Gold Nanoclusters and Pseudomonas aeruginosa and Staphylococcus aureus Bacterial Cells. ACS Applied Materials & Interfaces, 2022, 14, 32634-32645.	4.0	11
5	Optimization of spatial resolution and scattering effects for biomedical fluorescence imaging by using subâ€regions of the shortwave infrared spectrum. Journal of Biophotonics, 2021, 14, e202000345.	1.1	6
6	Deep learning: step forward to highâ€resolution in vivo shortwave infrared imaging. Journal of Biophotonics, 2021, 14, e202100102.	1.1	6
7	Protein corona modulates interaction of spiky nanoparticles with lipid bilayers. Journal of Colloid and Interface Science, 2021, 603, 550-558.	5.0	12
8	A NIR-II-emitting gold nanocluster-based drug delivery system for smartphone-triggered photodynamic theranostics with rapid body clearance. Materials Today, 2021, 51, 96-107.	8.3	26
9	Mechano-Bactericidal Titanium Surfaces for Bone Tissue Engineering. ACS Applied Materials & Interfaces, 2020, 12, 48272-48283.	4.0	62
10	Antibacterial Action of Nanoparticles by Lethal Stretching of Bacterial Cell Membranes. Advanced Materials, 2020, 32, e2005679.	11.1	102
11	Surface functionalization of gold nanoclusters with arginine: a trade-off between microtumor uptake and radiotherapy enhancement. Nanoscale, 2020, 12, 6959-6963.	2.8	30
12	High-Resolution Shortwave Infrared Imaging of Vascular Disorders Using Gold Nanoclusters. ACS Nano, 2020, 14, 4973-4981.	7.3	62
13	Water-Soluble Aza-BODIPYs: Biocompatible Organic Dyes for High Contrast In Vivo NIR-II Imaging. Bioconjugate Chemistry, 2020, 31, 1088-1092.	1.8	60
14	Augmented interaction of multivalent arginine coated gold nanoclusters with lipid membranes and cells. RSC Advances, 2020, 10, 6436-6443.	1.7	4
15	Gold nanoclusters for biomedical applications: toward in vivo studies. Journal of Materials Chemistry B, 2020, 8, 2216-2232.	2.9	95
16	Influence of the Spatial Conformation of Charged Ligands on the Optical Properties of Gold Nanoclusters. Journal of Physical Chemistry C, 2019, 123, 26705-26717.	1.5	15
17	High photoluminescence of shortwave infrared-emitting anisotropic surface charged gold nanoclusters. Nanoscale, 2019, 11, 12092-12096.	2.8	44
18	Gold nanoclusters as a contrast agent for image-guided surgery of head and neck tumors. Nanomedicine: Nanotechnology, Biology, and Medicine, 2019, 20, 102011.	1.7	29

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19	Ligand shell size effects on one- and two-photon excitation fluorescence of zwitterion functionalized gold nanoclusters. Physical Chemistry Chemical Physics, 2019, 21, 23916-23921.	1.3	24
20	Elemental and optical imaging evaluation of zwitterionic gold nanoclusters in glioblastoma mouse models. Nanoscale, 2018, 10, 18657-18664.	2.8	51
21	3D imaging of theranostic nanoparticles in mice organs by means of x-ray phase contrast tomography. , 2018, , .		0
22	Zwitterion functionalized gold nanoclusters for multimodal near infrared fluorescence and photoacoustic imaging. APL Materials, 2017, 5, .	2.2	52
23	Shortwave Infrared in Vivo Imaging with Gold Nanoclusters. Nano Letters, 2017, 17, 6330-6334.	4.5	149
24	Hydrophobicity of Gold Nanoclusters Influences Their Interactions with Biological Barriers. Chemistry of Materials, 2017, 29, 7497-7506.	3.2	53
25	Conventional Matrices Loaded Onto a Graphene Layer Enhances MALDI-TOF/TOF Signal: Its Application to Improve Detection of Phosphorylated Peptides. Journal of the American Society for Mass Spectrometry, 2016, 27, 366-369.	1.2	8
26	Self-Assembled Gold Nanoclusters for Bright Fluorescence Imaging and Enhanced Drug Delivery. ACS Nano, 2016, 10, 2591-2599.	7.3	341
27	Light induced cytosolic drug delivery from liposomes with gold nanoparticles. Journal of Controlled Release, 2015, 203, 85-98.	4.8	113
28	Nanoparticle size influences the proliferative responses of lymphocyte subpopulations. RSC Advances, 2015, 5, 85305-85309.	1.7	21
29	Multivalent Glycosylation of Fluorescent Gold Nanoclusters Promotes Increased Human Dendritic Cell Targeting via Multiple Endocytic Pathways. ACS Applied Materials & Interfaces, 2015, 7, 20945-20956.	4.0	56
30	Intracellular accumulation and immunological properties of fluorescent gold nanoclusters in human dendritic cells. Biomaterials, 2015, 43, 1-12.	5.7	100
31	Surface chemistry dependent immunostimulative potential of porous silicon nanoplatforms. Biomaterials, 2014, 35, 9224-9235.	5.7	72
32	Recent Advances on the Synthesis of Metal Quantum Nanoclusters and Their Application for Bioimaging. IEEE Journal of Selected Topics in Quantum Electronics, 2014, 20, 45-56.	1.9	22
33	Ligand effect on the size, valence state and red/near infrared photoluminescence of bidentate thiol gold nanoclusters. Nanoscale, 2014, 6, 8091-8099.	2.8	56
34	Elaboration by the sol-gel process of fluorescent sensitive coatings for gas chemical sensors. , 2012, , .		0
35	Synthesis of Yellow-Emitting Platinum Nanoclusters by Ligand Etching. Journal of Physical Chemistry C, 2012, 116, 6047-6051.	1.5	64
36	High photostability and enhanced fluorescence of gold nanoclusters by silver doping. Nanoscale, 2012, 4, 7624.	2.8	102

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37	Highly fluorescent silver nanoclusters stabilized by glutathione: a promising fluorescent label for bioimaging. Nano Research, 2012, 5, 379-387.	5.8	149
38	Synthesis and characterization of superparamagnetic nanoparticles coated with fluorescent gold nanoclusters. Journal of Nanoparticle Research, 2012, 14, 1.	0.8	8
39	NIR-emitting fluorescent gold nanoclusters doped in silica nanoparticles. Journal of Materials Chemistry, 2011, 21, 2974.	6.7	87
40	Formation of Fluorescent Metal (Au, Ag) Nanoclusters Capped in Bovine Serum Albumin Followed by Fluorescence and Spectroscopy. Journal of Physical Chemistry C, 2011, 115, 10955-10963.	1.5	365
41	Synthesis and characterization of human transferrin-stabilized gold nanoclusters. Nanotechnology, 2011, 22, 275103.	1.3	169
42	Synthesis and characterization of monodisperse, mesoporous, and magnetic sub-micron particles doped with a near-infrared fluorescent dye. Journal of Solid State Chemistry, 2011, 184, 1545-1550.	1.4	7
43	Enhancing the analytical performance of immunoassays that employ metal-enhanced fluorescence. Analytical and Bioanalytical Chemistry, 2010, 396, 1127-1134.	1.9	41
44	A comparison of mono and multivalent linkers and their effect on the colloidal stability of nanoparticle and immunoassays performance. Talanta, 2010, 81, 1833-1839.	2.9	47
45	Exploiting Nanobiophotonics for Enhanced Optical Biosensor Platforms. ECS Transactions, 2009, 19, 327-330.	0.3	0
46	Experimental and theoretical studies of the optimisation of fluorescence from near-infrared dye-doped silica nanoparticles. Analytical and Bioanalytical Chemistry, 2009, 393, 1143-1149.	1.9	46
47	Synthesis, Stabilization, and Functionalization of Silver Nanoplates for Biosensor Applications. Journal of Physical Chemistry C, 2009, 113, 16380-16386.	1.5	54
48	Effect of titania content on the optical properties of dye-doped hybrid solâ€“gel coatings. Optical Materials, 2008, 31, 451-454.	1.7	10
49	Influence of chelating agents on the photopolymerization of hybrid Ti-based waveguides. Journal of Materials Chemistry, 2008, 18, 3556.	6.7	17