Pascal Perriat

List of Publications by Citations

72 papers	4,000 citations	31 h-index	63 g-index
72 ext. papers	4,266 ext. citations	6.1 avg, IF	4.41 L-index

#	Paper	IF	Citations
72	Hybrid gadolinium oxide nanoparticles: multimodal contrast agents for in vivo imaging. *Journal of the American Chemical Society*, **2007**, 129, 5076-84	16.4	656
71	Gadolinium chelate coated gold nanoparticles as contrast agents for both X-ray computed tomography and magnetic resonance imaging. *Journal of the American Chemical Society*, **2008**, 130, 5908-15	16.4	448
70	Toward an image-guided microbeam radiation therapy using gadolinium-based nanoparticles. *ACS Nano*, **2011**, 5, 9566-74	16.7	186
69	Nanosized Hybrid Particles with Double Luminescence for Biological Labeling. *Chemistry of Materials*, **2005**, 17, 1673-1682	9.6	172
68	Synthesis, characterization of dihydrolipoic acid capped gold nanoparticles, and functionalization by the electroluminescent luminol. *Langmuir*, **2005**, 21, 2526-36	4	144
67	Ultrasmall rigid particles as multimodal probes for medical applications. *Angewandte Chemie - International Edition*, **2011**, 50, 12299-303	16.4	142
66	Control of the in vivo biodistribution of hybrid nanoparticles with different poly(ethylene glycol) coatings. *Small*, **2009**, 5, 2565-75	11	111
65	Long-term in vivo clearance of gadolinium-based AGuIX nanoparticles and their biocompatibility after systemic injection. *ACS Nano*, **2015**, 9, 2477-88	16.7	109
64	The biodistribution of gold nanoparticles designed for renal clearance. *Nanoscale*, **2013**, 5, 5930-9	7.7	105
63	X-ray-Induced Singlet Oxygen Activation with Nanoscintillator-Coupled Porphyrins. *Journal of Physical Chemistry C*, **2013**, 117, 21583-21589	3.8	102
62	Dendronized iron oxide nanoparticles as contrast agents for MRI. *Chemical Communications*, **2010**, 46, 985-7	5.8	102
61	A top-down synthesis route to ultrasmall multifunctional Gd-based silica nanoparticles for theranostic applications. *Chemistry - A European Journal*, **2013**, 19, 6122-36	4.8	100
60	The In Vivo Radiosensitizing Effect of Gold Nanoparticles Based MRI Contrast Agents. *Small*, **2014**, 10, 1116	11	92
59	Biodistribution study of nanometric hybrid gadolinium oxide particles as a multimodal SPECT/MR/optical imaging and theragnostic agent. *Bioconjugate Chemistry*, **2011**, 22, 1145-52	6.3	90
58	Advantages of gadolinium based ultrasmall nanoparticles vs molecular gadolinium chelates for radiotherapy guided by MRI for glioma treatment. *Cancer Nanotechnology*, **2014**, 5, 4	7.9	78
57	Nebulized gadolinium-based nanoparticles: a theranostic approach for lung tumor imaging and radiosensitization. *Small*, **2015**, 11, 215-21	11	71
56	Internalization pathways into cancer cells of gadolinium-based radiosensitizing nanoparticles. *Biomaterials*, **2013**, 34, 181-95	15.6	71

55	Hybrid gadolinium oxide nanoparticles combining imaging and therapy. *Journal of Materials Chemistry*, **2009**, 19, 2328		65
54	Observation of the gap blueshift on Gd2O3:Eu3+ nanoparticles. *Journal of Applied Physics*, **2004**, 96, 650-653	2.5	64
53	A versatile method for direct and covalent immobilization of DNA and proteins on biochips. *Angewandte Chemie - International Edition*, **2007**, 46, 4108-10	16.4	63
52	Constitutional self-organization of adenine-uracil-derived hybrid materials. *Chemistry - A European Journal*, **2007**, 13, 6792-800	4.8	57
51	Gadolinium nanoparticles and contrast agent as radiation sensitizers. *Physics in Medicine and Biology*, **2015**, 60, 4449-64	3.8	51
50	Ion-conduction pathways in self-organised ureidoarene-heteropolysiloxane hybrid membranes. *Chemistry - A European Journal*, **2008**, 14, 1776-83	4.8	43
49	Functionalization of small rigid platforms with cyclic RGD peptides for targeting tumors overexpressing □3-integrins. *Bioconjugate Chemistry*, **2013**, 24, 1584-97	6.3	42
48	Multifunctional ultrasmall nanoplatforms for vascular-targeted interstitial photodynamic therapy of brain tumors guided by real-time MRI. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2015**, 11, 657-70	6	41
47	Biodistribution of ultra small gadolinium-based nanoparticles as theranostic agent: application to brain tumors. *Journal of Biomaterials Applications*, **2013**, 28, 385-94	2.9	40
46	Optimally Designed Nanoshell and Matryoshka-Nanoshell as a Plasmonic-Enhanced Fluorescence Probe. *Journal of Physical Chemistry C*, **2012**, 116, 8804-8812	3.8	39
45	Mn(II)-containing coordination nanoparticles as highly efficient T(1) contrast agents for magnetic resonance imaging. *Chemical Communications*, **2014**, 50, 6740-3	5.8	34
44	Functionalization of luminescent aminated particles for facile bioconjugation. *ACS Nano*, **2008**, 2, 2273-82	16.7	33
43	Gold nanoparticles designed for combining dual modality imaging and radiotherapy **2008**, 41, 90-97		32
42	Luminescence enhancement by energy transfer in core-shell structures. *Chemical Physics Letters*, **2006**, 429, 157-160	2.5	32
41	Anisotropic Plasmonic Sensing of Individual or Coupled Gold Nanorods. *Journal of Physical Chemistry C*, **2011**, 115, 22877-22885	3.8	31
40	Sintering of copper nanopowders under hydrogen: an in situ X-ray diffraction analysis. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2003**, 360, 258-263	5.3	31
39	Ultrasmall particles for Gd-MRI and (68) Ga-PET dual imaging. *Contrast Media and Molecular Imaging* , **2015**, 10, 309-19	3.2	30
38	The High Radiosensitizing Efficiency of a Trace of Gadolinium-Based Nanoparticles in Tumors. *Scientific Reports*, **2016**, 6, 29678	4.9	29

37	Bifunctional polypyridyl-Ru(II) complex grafted onto gadolinium-based nanoparticles for MR-imaging and photodynamic therapy. *Dalton Transactions*, **2013**, 42, 12410-20	4.3	26
36	Fabry-Perot type sensor with surface plasmon resonance. *Applied Physics Letters*, **2006**, 89, 223904	3.4	26
35	Optimization of the synthesis of nanostructured Tb3+-doped Gd2O3 by in-situ luminescence following up. *Journal of Colloid and Interface Science*, **2009**, 333, 684-9	9.3	25
34	Synthesis and optical characterization of Gd2O3:Eu3+ nanocrystals: surface states and VUV excitation. *Radiation Measurements*, **2004**, 38, 763-766	1.5	24
33	Development of gadolinium based nanoparticles having an affinity towards melanin. *Nanoscale*, **2013**, 5, 1603-15	7.7	23
32	Shape effect on a single-nanoparticle-based plasmonic nanosensor. *Nanotechnology*, **2013**, 24, 285502	3.4	23
31	Multifunctional nanoparticles: from the detection of biomolecules to the therapy. *International Journal of Nanotechnology*, **2010**, 7, 781	1.5	23
30	Sulfur K-edge XANES study of dihydrolipoic acid capped gold nanoparticles: dihydrolipoic acid is bound by both sulfur ends. *Chemical Communications*, **2005**, 369-71	5.8	23
29	Enhancing molecule fluorescence with asymmetrical plasmonic antennas. *Nanoscale*, **2013**, 5, 6545-51	7.7	20
28	Fluorescence correlation spectroscopy near individual gold nanoparticle. *Chemical Physics Letters*, **2011**, 503, 256-261	2.5	20
27	Core/shell nanoparticles for multiple biological detection with enhanced sensitivity and kinetics. *Nanotechnology*, **2008**, 19, 485103	3.4	19
26	How surface-enhanced chemiluminescence depends on the distance from a corrugated metal film. *Applied Physics Letters*, **2006**, 89, 223128	3.4	19
25	Influence of the nanoscale structure of gold thin films upon peroxidase-induced chemiluminescence. *Applied Physics Letters*, **2006**, 88, 023903	3.4	17
24	Surface adsorption effects on the lattice expansion of copper nanocrystals. *Applied Physics Letters*, **2005**, 86, 231914	3.4	16
23	Framework and grafted nickel ethylenediamine complexes in 2D hexagonal mesostructured templated silica. *Journal of Materials Chemistry*, **2009**, 19, 7308		15
22	Ultrasmall Rigid Particles as Multimodal Probes for Medical Applications. *Angewandte Chemie*, **2011** , 123, 12507-12511	3.6	14
21	Biomedical Applications of Nanomaterials Containing Gadolinium. *Current Inorganic Chemistry*, **2011**, 1, 117-129		13
20	Accessibility control on copper(II) complexes in mesostructured porous silica obtained by direct synthesis using bidentate organosilane ligands. *Langmuir*, **2010**, 26, 13493-501	4	13

19	Strong two-photon fluorescence enhanced jointly by dipolar and quadrupolar modes of a single plasmonic nanostructure. *Applied Physics Letters*, **2012**, 101, 051109	3.4	11
18	A 5-(difluorenyl)-1,10-phenanthroline-based Ru(II) complex as a coating agent for potential multifunctional gold nanoparticles. *Physical Chemistry Chemical Physics*, **2014**, 16, 14826-33	3.6	10
17	Paramagnetic nanoparticles to track and quantify in vivo immune human therapeutic cells. *Nanoscale*, **2013**, 5, 11409-15	7.7	10
16	How the morphology of biochips roughness increases surface-enhanced chemiluminescence. *Chemical Physics Letters*, **2007**, 439, 105-109	2.5	10
15	Multifunctional gadolinium oxide nanoparticles: towards image-guided therapy. *Imaging in Medicine* , **2010**, 2, 211-223	1	8
14	In vivo evidence of the targeting of cartilaginous tissue by pyridinium functionalized nanoparticles. *Chemical Communications*, **2013**, 49, 3046-8	5.8	7
13	Fluorescent Nanobeads: a First Step Toward Intelligent Water Tracers **2012**,		7
12	Dynamic segregation phenomena during oxidation of titanium ferrites. *Journal of Materials Chemistry*, **1999**, 9, 1179-1183		7
11	Fullerene as electrical hinge. *Applied Physics Letters*, **2012**, 100, 193111	3.4	6
10	Enhanced chemiluminescence-based detection on gold substrate after electrografting of diazonium precursor-coated gold nanoparticles. *Journal of Colloid and Interface Science*, **2016**, 467, 271-279	8.3	5
9	Mechanical activation conditions of the Fe2O3 and V2O3 mixture powders in order to obtain a nanometric vanadium spinel ferrite. *Powder Technology*, **1999**, 105, 155-161	5.2	5
8	Amorphous nanoshell formed through random growth and related plasmonic behaviors. *Chemical Physics Letters*, **2014**, 610-611, 278-283	2.5	4
7	How gold inclusions increase the rate of fluorescein energy homotransfer in silica beads. *Chemical Physics Letters*, **2010**, 490, 72-75	2.5	4
6	Influence of pH upon surface-enhanced enzyme-catalyzed luminol chemiluminescence at vicinity of nanoscale-corrugated gold and silver films. *Photochemistry and Photobiology*, **2008**, 84, 1244-8	3.6	4
5	Two examples of nanostructured gold surfaces as biosensors. Surface-enhanced chemiluminescence and double detection by surface plasmon resonance and luminescence **2008**, 41, 174-186		3
4	Synthèse de poudres nanométriques de titanate de strontium par émulsion stabilisée mécaniquement: maîtrise et prédiction de la taille des particules. *Comptes Rendus De L'Academie Des Sciences - Series IIc: Chemistry*, **1999**, 2, 379-385		2
3	The Design of Hybrid Nanoparticles for Image-Guided Radiotherapy. *ACS Symposium Series*, **2012**, 95-143	0.4	1
2	Réactivité vis-à-vis de l'Oxygène de spinelles de fer-vanadium de taille nanométrique et distribution cationique. *Comptes Rendus De L'Académie Des Sciences - Series IIB - Mechanics-Physics-Chemistry-Astronomy*, **1997**, 325, 279-286		1

1 Influence of NaOH Quantity upon the Size and Luminescent Property of Core-Shell Gd2O3:Tb3+ /SiOx Nanoparticles. *Advanced Materials Research*, **2013**, 813, 323-326 0.5