

Stephane Roux

List of Publications by Year in descending order

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74
papers

4,366
citations

159585

30
h-index

102487

66
g-index

74
all docs

74
docs citations

74
times ranked

6124
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantitative Comparison of the Light-to-Heat Conversion Efficiency in Nanomaterials Suitable for Photothermal Therapy. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 33555-33566.	8.0	32
2	Characterization and biodistribution of Au nanoparticles loaded in PLGA nanocarriers using an original encapsulation process. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021, 205, 111875.	5.0	10
3	The detrimental invasiveness of glioma cells controlled by gadolinium chelate-coated gold nanoparticles. <i>Nanoscale</i> , 2021, 13, 9236-9251.	5.6	7
4	Two step promotion of a hot tumor immune environment by gold decorated iron oxide nanoflowers and light-triggered mild hyperthermia. <i>Nanoscale</i> , 2021, 13, 18483-18497.	5.6	11
5	Uptake and excretion dynamics of gold nanoparticles in cancer cells and fibroblasts. <i>Nanotechnology</i> , 2020, 31, 135102.	2.6	21
6	A Proof-of-Concept Study on the Therapeutic Potential of Au Nanoparticles Radiolabeled with the Alpha-Emitter Actinium-225. <i>Pharmaceutics</i> , 2020, 12, 188.	4.5	40
7	Photothermal Depletion of Cancer-Associated Fibroblasts Normalizes Tumor Stiffness in Desmoplastic Cholangiocarcinoma. <i>ACS Nano</i> , 2020, 14, 5738-5753.	14.6	54
8	AGuIX [®] from bench to bedside—Transfer of an ultrasmall theranostic gadolinium-based nanoparticle to clinical medicine. <i>British Journal of Radiology</i> , 2019, 92, 20180365.	2.2	86
9	Functionalization of theranostic AGuIX [®] nanoparticles for PET/MRI/optical imaging. <i>RSC Advances</i> , 2019, 9, 24811-24815.	3.6	16
10	Ultrasmall theranostic gadolinium-based nanoparticles improve high-grade rat glioma survival. <i>Journal of Clinical Neuroscience</i> , 2019, 67, 215-219.	1.5	22
11	Quality control of gold nanoparticles as pharmaceutical ingredients. <i>International Journal of Pharmaceutics</i> , 2019, 569, 118583.	5.2	12
12	Fluorescent Radiosensitizing Gold Nanoparticles. <i>International Journal of Molecular Sciences</i> , 2019, 20, 4618.	4.1	16
13	Challenges and Contradictions of Metal Nano-Particle Applications for Radio-Sensitivity Enhancement in Cancer Therapy. <i>International Journal of Molecular Sciences</i> , 2019, 20, 588.	4.1	35
14	Titanate Nanotubes Engineered with Gold Nanoparticles and Docetaxel to Enhance Radiotherapy on Xenografted Prostate Tumors. <i>Cancers</i> , 2019, 11, 1962.	3.7	22
15	The contribution of hydrogen peroxide to the radiosensitizing effect of gold nanoparticles. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 175, 606-613.	5.0	14
16	Granulocyte Colony-Stimulating Factor Nanocarriers for Stimulation of the Immune System (Part I): Synthesis and Biodistribution Studies. <i>Bioconjugate Chemistry</i> , 2018, 29, 795-803.	3.6	4
17	Functionalization of Gadolinium Chelates Silica Nanoparticle through Silane Chemistry for Simultaneous MRI/ ⁶⁴ Cu PET Imaging. <i>Contrast Media and Molecular Imaging</i> , 2018, 2018, 1-10.	0.8	6
18	One-pot direct synthesis for multifunctional ultrasmall hybrid silica nanoparticles. <i>Journal of Materials Chemistry B</i> , 2018, 6, 4821-4834.	5.8	4

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19	The High Radiosensitizing Efficiency of a Trace of Gadolinium-Based Nanoparticles in Tumors. Scientific Reports, 2016, 6, 29678.	3.3	40
20	Preclinical evaluation of gold-DTDTPA nanoparticles as theranostic agents in prostate cancer radiotherapy. Nanomedicine, 2016, 11, 2035-2047.	3.3	40
21	Minor changes in the macrocyclic ligands but major consequences on the efficiency of gold nanoparticles designed for radiosensitization. Nanoscale, 2016, 8, 12054-12065.	5.6	14
22	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.	9.4	5
23	Gadolinium-based nanoparticles for theranostic MRI-radiosensitization. Nanomedicine, 2015, 10, 1801-1815.	3.3	85
24	Thermodynamic stability and kinetic inertness of a Gd ^{III} -DTPA bisamide complex grafted onto gold nanoparticles. Contrast Media and Molecular Imaging, 2015, 10, 179-187.	0.8	12
25	Masthead: (Small 6/2014). Small, 2014, 10, n/a-n/a.	10.0	25
26	The In Vivo Radiosensitizing Effect of Gold Nanoparticles Based MRI Contrast Agents. Small, 2014, 10, 1116-1124.	10.0	111
27	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, 14826-14833.	2.8	14
28	Advantages of gadolinium based ultrasmall nanoparticles vs molecular gadolinium chelates for radiotherapy guided by MRI for glioma treatment. Cancer Nanotechnology, 2014, 5, 4.	3.7	93
29	Functionalization of Small Rigid Platforms with Cyclic RGD Peptides for Targeting Tumors Overexpressing β -V β -Integrins. Bioconjugate Chemistry, 2013, 24, 1584-1597.	3.6	49
30	Keeping an eye on gold. Gold Bulletin, 2013, 46, 211-212.	2.4	2
31	Internalization pathways into cancer cells of gadolinium-based radiosensitizing nanoparticles. Biomaterials, 2013, 34, 181-195.	11.4	83
32	A Top-Down Synthesis Route to Ultrasmall Multifunctional Gd-Based Silica Nanoparticles for Theranostic Applications. Chemistry - A European Journal, 2013, 19, 6122-6136.	3.3	115
33	The biodistribution of gold nanoparticles designed for renal clearance. Nanoscale, 2013, 5, 5930.	5.6	121
34	Biodistribution of ultra small gadolinium-based nanoparticles as theranostic agent: Application to brain tumors. Journal of Biomaterials Applications, 2013, 28, 385-394.	2.4	42
35	The Design of Hybrid Nanoparticles for Image-Guided Radiotherapy. ACS Symposium Series, 2012, , 95-143.	0.5	2
36	Iron Oxide Monocrystalline Nanoflowers for Highly Efficient Magnetic Hyperthermia. Journal of Physical Chemistry C, 2012, 116, 15702-15712.	3.1	240

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37	One-Pot Synthesis of Hybrid Multifunctional Silica Nanoparticles with Tunable Coating by Click Chemistry in Reverse W/O Microemulsion. <i>Langmuir</i> , 2012, 28, 209-218.	3.5	23
38	Biodistribution Study of Nanometric Hybrid Gadolinium Oxide Particles as a Multimodal SPECT/MR/Optical Imaging and Theragnostic Agent. <i>Bioconjugate Chemistry</i> , 2011, 22, 1145-1152.	3.6	95
39	Toward an Image-Guided Microbeam Radiation Therapy Using Gadolinium-Based Nanoparticles. <i>ACS Nano</i> , 2011, 5, 9566-9574.	14.6	212
40	Functionalized silica-based nanoparticles for photodynamic therapy. <i>Nanomedicine</i> , 2011, 6, 995-1009.	3.3	30
41	Labeling of fibronectin by fluorescent and paramagnetic nanoprobe for exploring the extracellular matrix: bioconjugate synthesis optimization and biochemical characterization. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 399, 1653-1663.	3.7	9
42	Ultrasmall Rigid Particles as Multimodal Probes for Medical Applications. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 12299-12303.	13.8	156
43	Fluorescence correlation spectroscopy near individual gold nanoparticle. <i>Chemical Physics Letters</i> , 2011, 503, 256-261.	2.6	24
44	Trimodal Gadolinium-Gold Microcapsules Containing Pancreatic Islet Cells Restore Normoglycemia in Diabetic Mice and Can Be Tracked by Using US, CT, and Positive-Contrast MR Imaging. <i>Radiology</i> , 2011, 260, 790-798.	7.3	124
45	Multifunctional nanoparticles: from the detection of biomolecules to the therapy. <i>International Journal of Nanotechnology</i> , 2010, 7, 781.	0.2	23
46	How gold inclusions increase the rate of fluorescein energy homotransfer in silica beads. <i>Chemical Physics Letters</i> , 2010, 490, 72-75.	2.6	4
47	Automated Oligonucleotide Solid-Phase Synthesis on Nanosized Silica Particles Using Nano-on-Micro Assembled Particle Supports. <i>Langmuir</i> , 2010, 26, 4941-4950.	3.5	15
48	Control of the in vivo Biodistribution of Hybrid Nanoparticles with Different Poly(ethylene glycol) Coatings. <i>Small</i> , 2009, 5, 2565-2575.	10.0	125
49	Optimization of the synthesis of nanostructured Tb ³⁺ -doped Gd ₂ O ₃ by in-situ luminescence following up. <i>Journal of Colloid and Interface Science</i> , 2009, 333, 684-689.	9.4	28
50	Hybrid gadolinium oxide nanoparticles combining imaging and therapy. <i>Journal of Materials Chemistry</i> , 2009, 19, 2328.	6.7	72
51	Gold nanoparticles designed for combining dual modality imaging and radiotherapy. <i>Gold Bulletin</i> , 2008, 41, 90-97.	2.7	34
52	Two examples of nanostructured gold surfaces as biosensors. Surface-enhanced chemiluminescence and double detection by surface plasmon resonance and luminescence. <i>Gold Bulletin</i> , 2008, 41, 174-186.	2.7	3
53	Influence of pH upon Surface-enhanced Enzyme-catalyzed Luminol Chemiluminescence at Vicinity of Nanoscale-corrugated Gold and Silver Films. <i>Photochemistry and Photobiology</i> , 2008, 84, 1244-1248.	2.5	4
54	Functionalization of Luminescent Aminated Particles for Facile Bioconjugation. <i>ACS Nano</i> , 2008, 2, 2273-2282.	14.6	36

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55	Core/shell nanoparticles for multiple biological detection with enhanced sensitivity and kinetics. <i>Nanotechnology</i> , 2008, 19, 485103.	2.6	26
56	Gadolinium Chelate Coated Gold Nanoparticles As Contrast Agents for Both X-ray Computed Tomography and Magnetic Resonance Imaging. <i>Journal of the American Chemical Society</i> , 2008, 130, 5908-5915.	13.7	488
57	Correlation reflectance spectroscopy of heterogeneous silver nanoparticle films upon compression at the air/water interface. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 052228.	1.8	4
58	A one-step derivatization of silica supports with various hydroxylated compounds (reporter) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622 T		
59	Hybrid Gadolinium Oxide Nanoparticles: A Multimodal Contrast Agents for in Vivo Imaging. <i>Journal of the American Chemical Society</i> , 2007, 129, 5076-5084.	13.7	721
60	How the morphology of biochips roughness increases surface-enhanced chemiluminescence. <i>Chemical Physics Letters</i> , 2007, 439, 105-109.	2.6	11
61	Fabry-Perot type sensor with surface plasmon resonance. <i>Applied Physics Letters</i> , 2006, 89, 223904.	3.3	27
62	How surface-enhanced chemiluminescence depends on the distance from a corrugated metal film. <i>Applied Physics Letters</i> , 2006, 89, 223128.	3.3	20
63	Luminescence enhancement by energy transfer in core-shell structures. <i>Chemical Physics Letters</i> , 2006, 429, 157-160.	2.6	35
64	Influence of the nanoscale structure of gold thin films upon peroxidase-induced chemiluminescence. <i>Applied Physics Letters</i> , 2006, 88, 023903.	3.3	17
65	Nanosystems for medical applications : biological detection, drug delivery, diagnosis and therapy. <i>European Journal of Control</i> , 2006, 31, 351-367.	2.6	23
66	Sulfur K-edge XANES study of dihydrolipoic acid capped gold nanoparticles: dihydrolipoic acid is bound by both sulfur ends. <i>Chemical Communications</i> , 2005, , 369-371.	4.1	25
67	Nanosized Hybrid Particles with Double Luminescence for Biological Labeling. <i>Chemistry of Materials</i> , 2005, 17, 1673-1682.	6.7	188
68	Synthesis, Characterization of Dihydrolipoic Acid Capped Gold Nanoparticles, and Functionalization by the Electroluminescent Luminol. <i>Langmuir</i> , 2005, 21, 2526-2536.	3.5	156
69	Surface-initiated polymerization from poly(ethylene terephthalate). <i>Journal of Polymer Science Part A</i> , 2003, 41, 1347-1359.	2.3	31
70	Surface Initiated Polymerization of Styrene from a Carboxylic Acid Functionalized Polypyrrole Coated Electrode. <i>Langmuir</i> , 2003, 19, 306-313.	3.5	17
71	Electropolymerization of carboxylic acid functionalized pyrrole into hybrid zirconium-silicon oxopolymer sol-gel coatings. <i>New Journal of Chemistry</i> , 2002, 26, 298-304.	2.8	7
72	Design of a new bilayer polypyrrole-xerogel hybrid coating for corrosion protection. <i>Journal of Materials Chemistry</i> , 2001, 11, 3360-3366.	6.7	22

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73	Functionalization of polypyrroles with acids and β -diketones as complexing groups. Part 1: electrochemical synthesis and properties. <i>New Journal of Chemistry</i> , 2000, 24, 877-884.	2.8	15
74	Functionalization of polypyrroles with acids and β -diketones as complexing groups. Part 2: electrochemical growth of polypyrrole into hybrid zirconium oxopolymer sol-gel coatings. <i>New Journal of Chemistry</i> , 2000, 24, 885-892.	2.8	11