

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	Hybrid Gadolinium Oxide Nanoparticles: Multimodal Contrast Agents for in Vivo Imaging. <i>Journal of the American Chemical Society</i> , 2007, 129, 5076-5084.	13.7	721
2	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
3	Iron Oxide Monocrystalline Nanoflowers for Highly Efficient Magnetic Hyperthermia. <i>Journal of Physical Chemistry C</i> , 2012, 116, 15702-15712.	3.1	240
4	Toward an Image-Guided Microbeam Radiation Therapy Using Gadolinium-Based Nanoparticles. <i>ACS Nano</i> , 2011, 5, 9566-9574.	14.6	212
5	Nanosized Hybrid Particles with Double Luminescence for Biological Labeling. <i>Chemistry of Materials</i> , 2005, 17, 1673-1682.	6.7	188
6	Synthesis, Characterization of Dihydrolipoic Acid Capped Gold Nanoparticles, and Functionalization by the Electroluminescent Luminol. <i>Langmuir</i> , 2005, 21, 2526-2536.	3.5	156
7	Ultrasmall Rigid Particles as Multimodal Probes for Medical Applications. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 12299-12303.	13.8	156
8	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
9	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
10	The biodistribution of gold nanoparticles designed for renal clearance. <i>Nanoscale</i> , 2013, 5, 5930.	5.6	121
11	A Top-Down Synthesis Route to Ultrasmall Multifunctional Gd-Based Silica Nanoparticles for Theranostic Applications. <i>Chemistry - A European Journal</i> , 2013, 19, 6122-6136.	3.3	115
12	The In Vivo Radiosensitizing Effect of Gold Nanoparticles Based MRI Contrast Agents. <i>Small</i> , 2014, 10, 1116-1124.	10.0	111
13	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
14	Advantages of gadolinium based ultrasmall nanoparticles vs molecular gadolinium chelates for radiotherapy guided by MRI for glioma treatment. <i>Cancer Nanotechnology</i> , 2014, 5, 4.	3.7	93
15	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
16	Gadolinium-based nanoparticles for theranostic MRI-radiosensitization. <i>Nanomedicine</i> , 2015, 10, 1801-1815.	3.3	85
17	Internalization pathways into cancer cells of gadolinium-based radiosensitizing nanoparticles. <i>Biomaterials</i> , 2013, 34, 181-195.	11.4	83
18	Hybrid gadolinium oxide nanoparticles combining imaging and therapy. <i>Journal of Materials Chemistry</i> , 2009, 19, 2328.	6.7	72

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19	Photothermal Depletion of Cancer-Associated Fibroblasts Normalizes Tumor Stiffness in Desmoplastic Cholangiocarcinoma. <i>ACS Nano</i> , 2020, 14, 5738-5753.	14.6	54
20	Functionalization of Small Rigid Platforms with Cyclic RGD Peptides for Targeting Tumors Overexpressing β -Integrins. <i>Bioconjugate Chemistry</i> , 2013, 24, 1584-1597.	3.6	49
21	Biodistribution of ultra small gadolinium-based nanoparticles as theranostic agent: Application to brain tumors. <i>Journal of Biomaterials Applications</i> , 2013, 28, 385-394.	2.4	42
22	The High Radiosensitizing Efficiency of a Trace of Gadolinium-Based Nanoparticles in Tumors. <i>Scientific Reports</i> , 2016, 6, 29678.	3.3	40
23	Preclinical evaluation of gold-DTDTPA nanoparticles as theranostic agents in prostate cancer radiotherapy. <i>Nanomedicine</i> , 2016, 11, 2035-2047.	3.3	40
24	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
25	Functionalization of Luminescent Aminated Particles for Facile Bioconjugation. <i>ACS Nano</i> , 2008, 2, 2273-2282.	14.6	36
26	Luminescence enhancement by energy transfer in core-shell structures. <i>Chemical Physics Letters</i> , 2006, 429, 157-160.	2.6	35
27	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
28	Gold nanoparticles designed for combining dual modality imaging and radiotherapy. <i>Gold Bulletin</i> , 2008, 41, 90-97.	2.7	34
29	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
30	Surface-initiated polymerization from poly(ethylene terephthalate). <i>Journal of Polymer Science Part A</i> , 2003, 41, 1347-1359.	2.3	31
31	Functionalized silica-based nanoparticles for photodynamic therapy. <i>Nanomedicine</i> , 2011, 6, 995-1009.	3.3	30
32	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
33	Fabry-Perot type sensor with surface plasmon resonance. <i>Applied Physics Letters</i> , 2006, 89, 223904.	3.3	27
34	Core/shell nanoparticles for multiple biological detection with enhanced sensitivity and kinetics. <i>Nanotechnology</i> , 2008, 19, 485103.	2.6	26
35	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
36	Masthead: (Small 6/2014). <i>Small</i> , 2014, 10, n/a-n/a.	10.0	25

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37	Fluorescence correlation spectroscopy near individual gold nanoparticle. <i>Chemical Physics Letters</i> , 2011, 503, 256-261.	2.6	24
38	Multifunctional nanoparticles: from the detection of biomolecules to the therapy. <i>International Journal of Nanotechnology</i> , 2010, 7, 781.	0.2	23
39	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
40	Nanosystems for medical applications : biological detection, drug delivery, diagnosis and therapy. <i>European Journal of Control</i> , 2006, 31, 351-367.	2.6	23
41	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
42	Ultrasmall theranostic gadolinium-based nanoparticles improve high-grade rat glioma survival. <i>Journal of Clinical Neuroscience</i> , 2019, 67, 215-219.	1.5	22
43	Titanate Nanotubes Engineered with Gold Nanoparticles and Docetaxel to Enhance Radiotherapy on Xenografted Prostate Tumors. <i>Cancers</i> , 2019, 11, 1962.	3.7	22
44	Uptake and excretion dynamics of gold nanoparticles in cancer cells and fibroblasts. <i>Nanotechnology</i> , 2020, 31, 135102.	2.6	21
45	How surface-enhanced chemiluminescence depends on the distance from a corrugated metal film. <i>Applied Physics Letters</i> , 2006, 89, 223128.	3.3	20
46	Surface Initiated Polymerization of Styrene from a Carboxylic Acid Functionalized Polypyrrole Coated Electrode. <i>Langmuir</i> , 2003, 19, 306-313.	3.5	17
47	Influence of the nanoscale structure of gold thin films upon peroxidase-induced chemiluminescence. <i>Applied Physics Letters</i> , 2006, 88, 023903.	3.3	17
48	Functionalization of theranostic AuI ⁺ nanoparticles for PET/MRI/optical imaging. <i>RSC Advances</i> , 2019, 9, 24811-24815.	3.6	16
49	Fluorescent Radiosensitizing Gold Nanoparticles. <i>International Journal of Molecular Sciences</i> , 2019, 20, 4618.	4.1	16
50	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
51	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
52	A 5-(difluorenyl)-1,10-phenanthroline-based Ru(II) complex as a coating agent for potential multifunctional gold nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 14826-14833.	2.8	14
53	Minor changes in the macrocyclic ligands but major consequences on the efficiency of gold nanoparticles designed for radiosensitization. <i>Nanoscale</i> , 2016, 8, 12054-12065.	5.6	14
54	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

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55	Thermodynamic stability and kinetic inertness of a Gd ³⁺ -DTPA bisamide complex grafted onto gold nanoparticles. <i>Contrast Media and Molecular Imaging</i> , 2015, 10, 179-187.	0.8	12
56	Quality control of gold nanoparticles as pharmaceutical ingredients. <i>International Journal of Pharmaceutics</i> , 2019, 569, 118583.	5.2	12
57	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
58	How the morphology of biochips roughness increases surface-enhanced chemiluminescence. <i>Chemical Physics Letters</i> , 2007, 439, 105-109.	2.6	11
59	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
60	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
61	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
62	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
63	The detrimental invasiveness of glioma cells controlled by gadolinium chelate-coated gold nanoparticles. <i>Nanoscale</i> , 2021, 13, 9236-9251.	5.6	7
64	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
65	Enhanced chemiluminescence-based detection on gold substrate after electrografting of diazonium precursor-coated gold nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2016, 467, 271-279.	9.4	5
66	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
67	Correlation reflectance spectroscopy of heterogeneous silver nanoparticle films upon compression at the air/water interface. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 055228.	1.8	4
68	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
69	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
70	One-pot direct synthesis for multifunctional ultrasmall hybrid silica nanoparticles. <i>Journal of Materials Chemistry B</i> , 2018, 6, 4821-4834.	5.8	4
71	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
72	The Design of Hybrid Nanoparticles for Image-Guided Radiotherapy. <i>ACS Symposium Series</i> , 2012, , 95-143.	0.5	2

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73	Keeping an eye on gold. Gold Bulletin, 2013, 46, 211-212.	2.4	2
74	A one-step derivatization of silica supports with various hydroxylated compounds (reporter) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 702 T		