

Alaaldin M Alkilany

List of Publications by Year in descending order

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55
papers

12,982
citations

156536

32
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175968

55
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57
all docs

57
docs citations

57
times ranked

22787
citing authors

#	ARTICLE	IF	CITATIONS
1	PLGA-Gold Nanocomposite: Preparation and Biomedical Applications. <i>Pharmaceutics</i> , 2022, 14, 660.	2.0	8
2	Quercetin-gold nanorods incorporated into nanofibers: development, optimization and cytotoxicity. <i>RSC Advances</i> , 2021, 11, 19956-19966.	1.7	7
3	Evaluation of the Benefits of Microfluidic-Assisted Preparation of Polymeric Nanoparticles for DNA Delivery. <i>Materials Science and Engineering C</i> , 2021, 127, 112243.	3.8	17
4	Synthesis of Fluorescent Silver Nanoclusters: Introducing Bottom-Up and Top-Down Approaches to Nanochemistry in a Single Laboratory Class. <i>Journal of Chemical Education</i> , 2020, 97, 239-243.	1.1	24
5	Microfluidics for pharmaceutical nanoparticle fabrication: The truth and the myth. <i>International Journal of Pharmaceutics</i> , 2020, 584, 119408.	2.6	72
6	Facile Functionalization of Gold Nanoparticles with PLGA Polymer Brushes and Efficient Encapsulation into PLGA Nanoparticles: Toward Spatially Precise Bioimaging of Polymeric Nanoparticles. <i>Particle and Particle Systems Characterization</i> , 2019, 36, 1800414.	1.2	18
7	Facile Hydrophobication of Glutathione-Protected Gold Nanoclusters and Encapsulation into Poly(lactide-co-glycolide) Nanocarriers. <i>Scientific Reports</i> , 2019, 9, 11098.	1.6	17
8	Synergistic antibacterial activity of silver nanoparticles and hydrogen peroxide. <i>PLoS ONE</i> , 2019, 14, e0220575.	1.1	37
9	Assembly and Degradation of Inorganic Nanoparticles in Biological Environments. <i>Bioconjugate Chemistry</i> , 2019, 30, 2751-2762.	1.8	30
10	Identification of substandard drug products using electronic tongue: cefdinir suspension as a pilot example. <i>Drug Design, Development and Therapy</i> , 2019, Volume 13, 3249-3258.	2.0	2
11	Ligand density on nanoparticles: A parameter with critical impact on nanomedicine. <i>Advanced Drug Delivery Reviews</i> , 2019, 143, 22-36.	6.6	124
12	Controlling the internal morphology of aqueous core-PLGA shell microcapsules: promoting the internal phase separation via alcohol addition. <i>Pharmaceutical Development and Technology</i> , 2019, 24, 671-679.	1.1	7
13	Tunable sustained release drug delivery system based on mononuclear aqueous core-polymer shell microcapsules. <i>International Journal of Pharmaceutics</i> , 2019, 558, 291-298.	2.6	22
14	Synchrotron-based X-ray fluorescence study of gold nanorods and skin elements distribution into excised human skin layers. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 165, 118-126.	2.5	14
15	Nano-Photothermal ablation effect of Hydrophilic and Hydrophobic Functionalized Gold Nanorods on <i>Staphylococcus aureus</i> and <i>Propionibacterium acnes</i> . <i>Scientific Reports</i> , 2018, 8, 6881.	1.6	48
16	Correlation between ICP-OES and Synchrotron-XRF in Detecting the Penetration of Gold Nanorods into Excised Human Skin Layers. <i>Microscopy and Microanalysis</i> , 2018, 24, 538-539.	0.2	0
17	Simple Experiment to Determine Surfactant Critical Micelle Concentrations Using Contact-Angle Measurements. <i>Journal of Chemical Education</i> , 2018, 95, 2227-2232.	1.1	23
18	Synthesis of Gold Nanoparticles Using Leaf Extract of <i>Ziziphus zizyphus</i> and their Antimicrobial Activity. <i>Nanomaterials</i> , 2018, 8, 174.	1.9	239

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19	Freeze-drying of monoclonal antibody-conjugated gold nanorods: Colloidal stability and biological activity. <i>International Journal of Pharmaceutics</i> , 2018, 550, 269-277.	2.6	19
20	Introducing Students to Surface Modification and Phase Transfer of Nanoparticles with a Laboratory Experiment. <i>Journal of Chemical Education</i> , 2017, 94, 769-774.	1.1	9
21	Preferential accumulation of gold nanorods into human skin hair follicles: Effect of nanoparticle surface chemistry. <i>Journal of Colloid and Interface Science</i> , 2017, 503, 95-102.	5.0	54
22	Selected Standard Protocols for the Synthesis, Phase Transfer, and Characterization of Inorganic Colloidal Nanoparticles. <i>Chemistry of Materials</i> , 2017, 29, 399-461.	3.2	233
23	Preparation of Aqueous Core-Poly(d , l-Lactide- co -Glycolide) Shell Microcapsules With Mononuclear Cores by Internal Phase Separation: Optimization of Formulation Parameters. <i>Journal of Pharmaceutical Sciences</i> , 2017, 106, 1136-1142.	1.6	8
24	Cellular uptake of nanoparticles: journey inside the cell. <i>Chemical Society Reviews</i> , 2017, 46, 4218-4244.	18.7	1,709
25	Antibacterial activity of gold nanorods against <i>Staphylococcus aureus</i> and <i>Propionibacterium acnes</i> : misinterpretations and artifacts. <i>International Journal of Nanomedicine</i> , 2017, Volume 12, 7311-7322.	3.3	33
26	Biomedical Applications of Anisotropic Gold Nanoparticles. <i>Nanostructure Science and Technology</i> , 2017, , 399-426.	0.1	3
27	Misinterpretation in Nanotoxicology: A Personal Perspective. <i>Chemical Research in Toxicology</i> , 2016, 29, 943-948.	1.7	38
28	Protein corona: Opportunities and challenges. <i>International Journal of Biochemistry and Cell Biology</i> , 2016, 75, 143-147.	1.2	143
29	Colloidal stability of gold nanorod solution upon exposure to excised human skin: Effect of surface chemistry and protein adsorption. <i>International Journal of Biochemistry and Cell Biology</i> , 2016, 75, 223-231.	1.2	35
30	High conversion of HAuCl ₄ into gold nanorods: A re-seeding approach. <i>Journal of Colloid and Interface Science</i> , 2016, 463, 229-232.	5.0	17
31	Synthesis and Characterization of PLGA Shell Microcapsules Containing Aqueous Cores Prepared by Internal Phase Separation. <i>AAPS PharmSciTech</i> , 2016, 17, 891-897.	1.5	29
32	Phase transfer of citrate stabilized gold nanoparticles using nonspecifically adsorbed polymers. <i>Journal of Colloid and Interface Science</i> , 2016, 461, 39-44.	5.0	17
33	Synthesis of Monodispersed Gold Nanoparticles with Exceptional Colloidal Stability with Grafted Polyethylene Glycol-g-polyvinyl Alcohol. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-9.	1.5	29
34	Nanotoxicology: advances and pitfalls in research methodology. <i>Nanomedicine</i> , 2015, 10, 2931-2952.	1.7	70
35	Colloidal Stability of Citrate and Mercaptoacetic Acid Capped Gold Nanoparticles upon Lyophilization: Effect of Capping Ligand Attachment and Type of Cryoprotectants. <i>Langmuir</i> , 2014, 30, 13799-13808.	1.6	91
36	Homing Peptide-Conjugated Gold Nanorods: The Effect of Amino Acid Sequence Display on Nanorod Uptake and Cellular Proliferation. <i>Bioconjugate Chemistry</i> , 2014, 25, 1162-1171.	1.8	29

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37	Exocytosis of nanoparticles from cells: Role in cellular retention and toxicity. <i>Advances in Colloid and Interface Science</i> , 2013, 201-202, 18-29.	7.0	212
38	Nanoparticle-Protein Interactions: A Thermodynamic and Kinetic Study of the Adsorption of Bovine Serum Albumin to Gold Nanoparticle Surfaces. <i>Langmuir</i> , 2013, 29, 14984-14996.	1.6	216
39	The Gold Standard: Gold Nanoparticle Libraries To Understand the Nano-Bio Interface. <i>Accounts of Chemical Research</i> , 2013, 46, 650-661.	7.6	293
40	Toxicity and Cellular Uptake of Gold Nanorods in Vascular Endothelium and Smooth Muscles of Isolated Rat Blood Vessel: Importance of Surface Modification. <i>Small</i> , 2012, 8, 1270-1278.	5.2	76
41	The golden age: gold nanoparticles for biomedicine. <i>Chemical Society Reviews</i> , 2012, 41, 2740-2779.	18.7	2,900
42	Gold nanorods: Their potential for photothermal therapeutics and drug delivery, tempered by the complexity of their biological interactions. <i>Advanced Drug Delivery Reviews</i> , 2012, 64, 190-199.	6.6	721
43	Oxidative species increase arginase activity in endothelial cells through the RhoA/Rho kinase pathway. <i>British Journal of Pharmacology</i> , 2012, 165, 506-519.	2.7	133
44	High glucose limits NO production through ATF-2 and c-Jun transcriptional regulation of Arginase. <i>FASEB Journal</i> , 2012, 26, lb524.	0.2	0
45	Clickable polyglycerol hyperbranched polymers and their application to gold nanoparticles and acid-labile nanocarriers. <i>Chemical Communications</i> , 2011, 47, 1279-1281.	2.2	53
46	Gold nanorod crystal growth: From seed-mediated synthesis to nanoscale sculpting. <i>Current Opinion in Colloid and Interface Science</i> , 2011, 16, 128-134.	3.4	219
47	The Many Faces of Gold Nanorods. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 2867-2875.	2.1	247
48	Toxicity and cellular uptake of gold nanoparticles: what we have learned so far?. <i>Journal of Nanoparticle Research</i> , 2010, 12, 2313-2333.	0.8	1,300
49	Cation Exchange on the Surface of Gold Nanorods with a Polymerizable Surfactant: Polymerization, Stability, and Toxicity Evaluation. <i>Langmuir</i> , 2010, 26, 9328-9333.	1.6	87
50	Polyelectrolyte Coating Provides a Facile Route to Suspend Gold Nanorods in Polar Organic Solvents and Hydrophobic Polymers. <i>ACS Applied Materials & Interfaces</i> , 2010, 2, 3417-3421.	4.0	53
51	Cellular Uptake and Cytotoxicity of Gold Nanorods: Molecular Origin of Cytotoxicity and Surface Effects. <i>Small</i> , 2009, 5, 701-708.	5.2	927
52	Gold Nanoparticles with a Polymerizable Surfactant Bilayer: Synthesis, Polymerization, and Stability Evaluation. <i>Langmuir</i> , 2009, 25, 13874-13879.	1.6	59
53	Chemical sensing and imaging with metallic nanorods. <i>Chemical Communications</i> , 2008, , 544-557.	2.2	496
54	Gold Nanoparticles in Biology: Beyond Toxicity to Cellular Imaging. <i>Accounts of Chemical Research</i> , 2008, 41, 1721-1730.	7.6	1,637

#	ARTICLE	IF	CITATIONS
55	Gold Nanorods as Nanoadmicelles: 1-Naphthol Partitioning into a Nanorod-Bound Surfactant Bilayer. Langmuir, 2008, 24, 10235-10239.	1.6	76