

Alaaldin M Alkilany

List of Publications by Year in descending order

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55
papers

12,982
citations

136950

32
h-index

155660

55
g-index

57
all docs

57
docs citations

57
times ranked

20115
citing authors

#	ARTICLE	IF	CITATIONS
1	The golden age: gold nanoparticles for biomedicine. <i>Chemical Society Reviews</i> , 2012, 41, 2740-2779.	38.1	2,900
2	Cellular uptake of nanoparticles: journey inside the cell. <i>Chemical Society Reviews</i> , 2017, 46, 4218-4244.	38.1	1,709
3	Gold Nanoparticles in Biology: Beyond Toxicity to Cellular Imaging. <i>Accounts of Chemical Research</i> , 2008, 41, 1721-1730.	15.6	1,637
4	Toxicity and cellular uptake of gold nanoparticles: what we have learned so far?. <i>Journal of Nanoparticle Research</i> , 2010, 12, 2313-2333.	1.9	1,300
5	Cellular Uptake and Cytotoxicity of Gold Nanorods: Molecular Origin of Cytotoxicity and Surface Effects. <i>Small</i> , 2009, 5, 701-708.	10.0	927
6	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.	13.7	721
7	Chemical sensing and imaging with metallic nanorods. <i>Chemical Communications</i> , 2008, , 544-557.	4.1	496
8	The Gold Standard: Gold Nanoparticle Libraries To Understand the Nano-Bio Interface. <i>Accounts of Chemical Research</i> , 2013, 46, 650-661.	15.6	293
9	The Many Faces of Gold Nanorods. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 2867-2875.	4.6	247
10	Synthesis of Gold Nanoparticles Using Leaf Extract of <i>Ziziphus zizyphus</i> and their Antimicrobial Activity. <i>Nanomaterials</i> , 2018, 8, 174.	4.1	239
11	Selected Standard Protocols for the Synthesis, Phase Transfer, and Characterization of Inorganic Colloidal Nanoparticles. <i>Chemistry of Materials</i> , 2017, 29, 399-461.	6.7	233
12	Gold nanorod crystal growth: From seed-mediated synthesis to nanoscale sculpting. <i>Current Opinion in Colloid and Interface Science</i> , 2011, 16, 128-134.	7.4	219
13	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.	3.5	216
14	Exocytosis of nanoparticles from cells: Role in cellular retention and toxicity. <i>Advances in Colloid and Interface Science</i> , 2013, 201-202, 18-29.	14.7	212
15	Protein corona: Opportunities and challenges. <i>International Journal of Biochemistry and Cell Biology</i> , 2016, 75, 143-147.	2.8	143
16	Oxidative species increase arginase activity in endothelial cells through the RhoA/Rho kinase pathway. <i>British Journal of Pharmacology</i> , 2012, 165, 506-519.	5.4	133
17	Ligand density on nanoparticles: A parameter with critical impact on nanomedicine. <i>Advanced Drug Delivery Reviews</i> , 2019, 143, 22-36.	13.7	124
18	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.	3.5	91

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19	Cation Exchange on the Surface of Gold Nanorods with a Polymerizable Surfactant: Polymerization, Stability, and Toxicity Evaluation. <i>Langmuir</i> , 2010, 26, 9328-9333.	3.5	87
20	Gold Nanorods as Nanoadmicelles: 1-Naphthol Partitioning into a Nanorod-Bound Surfactant Bilayer. <i>Langmuir</i> , 2008, 24, 10235-10239.	3.5	76
21	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.	10.0	76
22	Microfluidics for pharmaceutical nanoparticle fabrication: The truth and the myth. <i>International Journal of Pharmaceutics</i> , 2020, 584, 119408.	5.2	72
23	Nanotoxicology: advances and pitfalls in research methodology. <i>Nanomedicine</i> , 2015, 10, 2931-2952.	3.3	70
24	Gold Nanoparticles with a Polymerizable Surfactant Bilayer: Synthesis, Polymerization, and Stability Evaluation. <i>Langmuir</i> , 2009, 25, 13874-13879.	3.5	59
25	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.	9.4	54
26	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.	8.0	53
27	Clickable polyglycerol hyperbranched polymers and their application to gold nanoparticles and acid-labile nanocarriers. <i>Chemical Communications</i> , 2011, 47, 1279-1281.	4.1	53
28	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.	3.3	48
29	Misinterpretation in Nanotoxicology: A Personal Perspective. <i>Chemical Research in Toxicology</i> , 2016, 29, 943-948.	3.3	38
30	Synergistic antibacterial activity of silver nanoparticles and hydrogen peroxide. <i>PLoS ONE</i> , 2019, 14, e0220575.	2.5	37
31	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.	2.8	35
32	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.	6.7	33
33	Assembly and Degradation of Inorganic Nanoparticles in Biological Environments. <i>Bioconjugate Chemistry</i> , 2019, 30, 2751-2762.	3.6	30
34	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.	3.6	29
35	Synthesis of Monodispersed Gold Nanoparticles with Exceptional Colloidal Stability with Grafted Polyethylene Glycol-polyvinyl Alcohol. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-9.	2.7	29
36	Synthesis and Characterization of PLGA Shell Microcapsules Containing Aqueous Cores Prepared by Internal Phase Separation. <i>AAPS PharmSciTech</i> , 2016, 17, 891-897.	3.3	29

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37	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.	2.3	24
38	Simple Experiment to Determine Surfactant Critical Micelle Concentrations Using Contact-Angle Measurements. <i>Journal of Chemical Education</i> , 2018, 95, 2227-2232.	2.3	23
39	Tunable sustained release drug delivery system based on mononuclear aqueous core-polymer shell microcapsules. <i>International Journal of Pharmaceutics</i> , 2019, 558, 291-298.	5.2	22
40	Freeze-drying of monoclonal antibody-conjugated gold nanorods: Colloidal stability and biological activity. <i>International Journal of Pharmaceutics</i> , 2018, 550, 269-277.	5.2	19
41	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.	2.3	18
42	High conversion of HAuCl ₄ into gold nanorods: A re-seeding approach. <i>Journal of Colloid and Interface Science</i> , 2016, 463, 229-232.	9.4	17
43	Phase transfer of citrate stabilized gold nanoparticles using nonspecifically adsorbed polymers. <i>Journal of Colloid and Interface Science</i> , 2016, 461, 39-44.	9.4	17
44	Facile Hydrophobication of Glutathione-Protected Gold Nanoclusters and Encapsulation into Poly(lactide-co-glycolide) Nanocarriers. <i>Scientific Reports</i> , 2019, 9, 11098.	3.3	17
45	Evaluation of the Benefits of Microfluidic-Assisted Preparation of Polymeric Nanoparticles for DNA Delivery. <i>Materials Science and Engineering C</i> , 2021, 127, 112243.	7.3	17
46	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.	5.0	14
47	Introducing Students to Surface Modification and Phase Transfer of Nanoparticles with a Laboratory Experiment. <i>Journal of Chemical Education</i> , 2017, 94, 769-774.	2.3	9
48	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.	3.3	8
49	PLGA-Gold Nanocomposite: Preparation and Biomedical Applications. <i>Pharmaceutics</i> , 2022, 14, 660.	4.5	8
50	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.	2.4	7
51	Quercetin-gold nanorods incorporated into nanofibers: development, optimization and cytotoxicity. <i>RSC Advances</i> , 2021, 11, 19956-19966.	3.6	7
52	Biomedical Applications of Anisotropic Gold Nanoparticles. <i>Nanostructure Science and Technology</i> , 2017, , 399-426.	0.1	3
53	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.	4.3	2
54	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.	0.4	0

#	ARTICLE	IF	CITATIONS
55	High glucose limits NO production through ATF α 2 and c-Jun transcriptional regulation of Arginase. FASEB Journal, 2012, 26, lb524.	0.5	0