Antonios G Kanaras

List of Publications by Citations

75 papers	3,965 citations	35 h-index	62 g-index
96 ext. papers	4,633 ext. citations	9.9 avg, IF	5.42 L-index

#	Paper	IF	Citations
75	Hybrid solar cells with prescribed nanoscale morphologies based on hyperbranched semiconductor nanocrystals. *Nano Letters*, **2007**, 7, 409-14	11.5	430
74	The Role of Ligands in the Chemical Synthesis and Applications of Inorganic Nanoparticles. *Chemical Reviews*, **2019**, 119, 4819-4880	68.1	375
73	Polymer-Enhanced Stability of Inorganic Perovskite Nanocrystals and Their Application in Color Conversion LEDs. *ACS Applied Materials & Interfaces*, **2016**, 8, 19579-86	9.5	243
72	Thioalkylated tetraethylene glycol: a new ligand for water soluble monolayer protected gold clusters. *Chemical Communications*, **2002**, 2294-5	5.8	210
71	Controlled synthesis of hyperbranched inorganic nanocrystals with rich three-dimensional structures. *Nano Letters*, **2005**, 5, 2164-7	11.5	195
70	Preparation of peptide-functionalized gold nanoparticles using one pot EDC/sulfo-NHS coupling. *Langmuir*, **2011**, 27, 10119-23	4	177
69	Highly Sensitive DNA Sensor Based on Upconversion Nanoparticles and Graphene Oxide. *ACS Applied Materials & Interfaces*, **2015**, 7, 12422-9	9.5	143
68	Towards multistep nanostructure synthesis: programmed enzymatic self-assembly of DNA/gold systems. *Angewandte Chemie - International Edition*, **2003**, 42, 191-4	16.4	139
67	Interactions of human endothelial cells with gold nanoparticles of different morphologies. *Small*, **2012**, 8, 122-30	11	97
66	Interactions of skin with gold nanoparticles of different surface charge, shape, and functionality. *Small*, **2015**, 11, 713-21	11	91
65	Colloidal branched semiconductor nanocrystals: state of the art and perspectives. *Accounts of Chemical Research*, **2013**, 46, 1387-96	24.3	89
64	Graphene Oxide-Upconversion Nanoparticle Based Optical Sensors for Targeted Detection of mRNA Biomarkers Present in Alzheimer's Disease and Prostate Cancer. *ACS Sensors*, **2017**, 2, 52-56	9.2	85
63	Giant Bandgap Renormalization and Exciton–Phonon Scattering in Perovskite Nanocrystals. *Advanced Optical Materials*, **2017**, 5, 1700231	8.1	79
62	Shaping supramolecular nanofibers with nanoparticles forming complementary hydrogen bonds. *Angewandte Chemie - International Edition*, **2008**, 47, 1861-5	16.4	79
61	Multiplexed mRNA Sensing and Combinatorial-Targeted Drug Delivery Using DNA-Gold Nanoparticle Dimers. *ACS Nano*, **2018**, 12, 3333-3340	16.7	73
60	Manipulation of in vitro angiogenesis using peptide-coated gold nanoparticles. *ACS Nano*, **2013**, 7, 5628-36	16.7	73
59	Exocytosis of peptide functionalized gold nanoparticles in endothelial cells. *Nanoscale*, **2012**, 4, 4470-2	7.7	68

58	Biosurfactant coated silver and iron oxide nanoparticles with enhanced anti-biofilm and anti-adhesive properties. *Journal of Hazardous Materials*, **2019**, 364, 441-448	12.8	59
57	Interaction of stable colloidal nanoparticles with cellular membranes. *Biotechnology Advances*, **2014**, 32, 679-92	17.8	58
56	Elastic constants, viscosity and response time in nematic liquid crystals doped with ferroelectric nanoparticles. *RSC Advances*, **2014**, 4, 46068-46074	3.7	50
55	Gold nanoparticles and fluorescently-labelled DNA as a platform for biological sensing. *Nanoscale*, **2013**, 5, 9503-10	7.7	50
54	Manganese doped-iron oxide nanoparticle clusters and their potential as agents for magnetic resonance imaging and hyperthermia. *Physical Chemistry Chemical Physics*, **2016**, 18, 16848-55	3.6	49
53	Graphene Oxide-Upconversion Nanoparticle Based Portable Sensors for Assessing Nutritional Deficiencies in Crops. *ACS Nano*, **2018**, 12, 6273-6279	16.7	49
52	Enzymatic disassembly of DNA-gold nanostructures. *Small*, **2007**, 3, 590-4	11	49
51	Copper-free click chemistry as an emerging tool for the programmed ligation of DNA-functionalised gold nanoparticles. *Nanoscale*, **2013**, 5, 7209-12	7.7	48
50	Receptor-mediated interactions between colloidal gold nanoparticles and human umbilical vein endothelial cells. *Small*, **2011**, 7, 388-94	11	47
49	Enzymatic DNA processing on gold nanoparticles. *Journal of Materials Chemistry*, **2004**, 14, 578		45
48	Laser-induced damage and recovery of plasmonically targeted human endothelial cells. *Nano Letters*, **2011**, 11, 1358-63	11.5	44
47	Plasmonic Bulk Heterojunction Solar Cells: The Role of Nanoparticle Ligand Coating. *ACS Photonics*, **2015**, 2, 714-723	6.3	40
46	Hyperspectral darkfield microscopy of single hollow gold nanoparticles for biomedical applications. *Physical Chemistry Chemical Physics*, **2013**, 15, 4163-8	3.6	39
45	Chemically induced self-assembly of spherical and anisotropic inorganic nanocrystals. *Journal of Materials Chemistry*, **2011**, 21, 16694		38
44	Plasmonic Backscattering Effect in High-Efficient Organic Photovoltaic Devices. *Advanced Energy Materials*, **2016**, 6, 1501640	21.8	37
43	Site-specific ligation of DNA-modified gold nanoparticles activated by the restriction enzyme StyI. *Small*, **2007**, 3, 67-70	11	37
42	Fast Assembly of Gold Nanoparticles in Large-Area 2D Nanogrids Using a One-Step, Near-Infrared Radiation-Assisted Evaporation Process. *ACS Nano*, **2016**, 10, 2232-42	16.7	35
41	Peptide-coated gold nanoparticles for modulation of angiogenesis in vivo. *International Journal of Nanomedicine*, **2016**, 11, 2633-9	7.3	35

40	Programmed assembly of peptide-functionalized gold nanoparticles on DNA templates. *Langmuir*, **2010**, 26, 13760-2	4	33
39	TiO2 nanoparticles as a soft X-ray molecular probe. *Chemical Communications*, **2008**, 2471-3	5.8	31
38	Towards Multistep Nanostructure Synthesis: Programmed Enzymatic Self-Assembly of DNA/Gold Systems. *Angewandte Chemie*, **2003**, 115, 201-204	3.6	29
37	Ligand-mediated self-assembly of polymer-enveloped gold nanoparticle chains and networks. *Chemical Communications*, **2010**, 46, 7602-4	5.8	28
36	Reversible Ligation of Programmed DNA-Gold Nanoparticle Assemblies. *Journal of the American Chemical Society*, **2015**, 137, 9242-5	16.4	27
35	Diacetylene-containing ligand as a new capping agent for the preparation of water-soluble colloidal nanoparticles of remarkable stability. *Langmuir*, **2010**, 26, 7072-7	4	25
34	Controlling the three-dimensional morphology of nanocrystals. *CrystEngComm*, **2010**, 12, 4312	3.3	25
33	High Optical Nonlinearity of Nematic Liquid Crystals Doped with Gold Nanoparticles. *Journal of Physical Chemistry C*, **2012**, 116, 12934-12939	3.8	23
32	Sensing of Vimentin mRNA in 2D and 3D Models of Wounded Skin Using DNA-Coated Gold Nanoparticles. *Small*, **2018**, 14, e1703489	11	19
31	Nanoparticles for inhibition of in vitro tumour angiogenesis: synergistic actions of ligand function and laser irradiation. *Biomaterials Science*, **2015**, 3, 733-41	7.4	19
30	Light-Induced Reversible DNA Ligation of Gold Nanoparticle Superlattices. *ACS Nano*, **2019**, 13, 5771-5777	16.7	18
29	The Sedimentation of Colloidal Nanoparticles in Solution and Its Study Using Quantitative Digital Photography. *Particle and Particle Systems Characterization*, **2017**, 34, 1700095	3.1	18
28	Enzymatic activity of lipase-nanoparticle conjugates and the digestion of lipid liquid crystalline assemblies. *Langmuir*, **2010**, 26, 13590-9	4	18
27	Anion exchange in inorganic perovskite nanocrystal polymer composites. *Chemical Science*, **2018**, 9, 8121-8126	9.4	17
26	Potentiating angiogenesis arrest in vivo via laser irradiation of peptide functionalised gold nanoparticles. *Journal of Nanobiotechnology*, **2017**, 15, 85	9.4	16
25	DNA-Coated Gold Nanoparticles for the Detection of mRNA in Live Hydra Vulgaris Animals. *ACS Applied Materials & Interfaces*, **2019**, 11, 13905-13911	9.5	15
24	Programming the assembly of gold nanoparticles on graphene oxide sheets using DNA. *Journal of Materials Chemistry C*, **2015**, 3, 9379-9384	7.1	14
23	Shaping Supramolecular Nanofibers with Nanoparticles Forming Complementary Hydrogen Bonds. *Angewandte Chemie*, **2008**, 120, 1887-1891	3.6	14

22	Directed organization of gold nanoparticles in polymer coatings through infrared-assisted evaporative lithography. *Chemical Communications*, **2013**, 49, 4253-5	5.8	12
21	Selective killing of cells triggered by their mRNA signature in the presence of smart nanoparticles. *Nanoscale*, **2016**, 8, 16857-16861	7.7	11
20	Spatial modulation microscopy for real-time imaging of plasmonic nanoparticles and cells. *Optics Letters*, **2012**, 37, 3015-7	3	10
19	Bactericidal Effect of 5-Mercapto-2-nitrobenzoic Acid-Coated Silver Nanoclusters against Multidrug-Resistant. *ACS Applied Materials & Interfaces*, **2020**, 12, 27994-28003	9.5	9
18	Assembly of quantum dots on peptide nanostructures and their spectroscopic properties. *Applied Physics A: Materials Science and Processing*, **2014**, 116, 977-985	2.6	9
17	Formation and plasmonic response of self-assembled layers of colloidal gold nanorods and branched gold nanoparticles. *Langmuir*, **2012**, 28, 8874-80	4	9
16	DNA Gold Nanoparticle Motors Demonstrate Processive Motion with Bursts of Speed Up to 50 nm Per Second. *ACS Nano*, **2021**, 15, 8427-8438	16.7	8
15	In-Depth Analysis of Excitation Dynamics in Dye-Sensitized Upconversion Core and Core/Active Shell Nanoparticles. *Journal of Physical Chemistry C*, **2018**, 122, 18177-18184	3.8	7
14	Nanoparticles-assisted delivery of antiviral-siRNA as inhalable treatment for human respiratory viruses: A candidate approach against SARS-COV-2. *Nano Select*, **2020**, 1, 612	3.1	6
13	The adsorbed state of a thiol on palladium nanoparticles. *Physical Chemistry Chemical Physics*, **2016**, 18, 17265-71	3.6	5
12	Spectroscopic and Hydrodynamic Characterisation of DNA-Linked Gold Nanoparticle Dimers in Solution using Two-Photon Photoluminescence. *ChemPhysChem*, **2018**, 19, 827-836	3.2	4
11	Porosity-moderated ultrafast electron transport in Au nanowire networks. *Applied Physics A: Materials Science and Processing*, **2013**, 111, 711-717	2.6	3
10	Chemically modified nucleic acids and DNA intercalators as tools for nanoparticle assembly. *Chemical Society Reviews*, **2021**, 50, 13410-13440	58.5	3
9	Enrichment of Skeletal Stem Cells from Human Bone Marrow Using Spherical Nucleic Acids. *ACS Nano*, **2021**, 15, 6909-6916	16.7	3
8	A DNA sensor based on upconversion nanoparticles and two-dimensional dichalcogenide materials. *Frontiers of Chemical Science and Engineering*, **2021**, 15, 935-943	4.5	3
7	Cells on hierarchically-structured platforms hosting functionalized nanoparticles. *Biomaterials Science*, **2018**, 6, 1469-1479	7.4	2
6	Single-nanoparticle detection and spectroscopy in cells using a hyperspectral darkfield imaging technique **2013**,		2
5	Exciton effects in perovskite nanocrystals. *JPhys Photonics*, **2021**, 3, 021002	2.5	2

4	Colloidal Synthesis of CsX Nanocrystals (X = Cl, Br, I). *Nanomaterials*, **2018**, 8,	5.4	1
3	DNA: Gold nanoparticles designed for mRNA sensing in cells: imaging of the gold nanoparticles using two photon photoluminescence spectroscopy. **2019**,		1
2	A method for the growth of uniform silica shells on different size and morphology upconversion nanoparticles. *Nanoscale Advances*, **2021**, 3, 3522-3529	5.1	1
1	Interaction of DNA and Peptide-Functionalized Gold Nanoparticles with Biological Systems **2022**, 135-180		