

Yu Chen

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8343106/publications.pdf>

Version: 2024-02-01

70
papers

1,753
citations

257450

24
h-index

289244

40
g-index

74
all docs

74
docs citations

74
times ranked

2617
citing authors

#	ARTICLE	IF	CITATIONS
1	Gold Nanoparticle Patterning of Silicon Wafers Using Chemical e-Beam Lithography. Langmuir, 2004, 20, 3766-3768.	3.5	203
2	Sintering of Passivated Gold Nanoparticles under the Electron Beam. Langmuir, 2006, 22, 2851-2855.	3.5	117
3	Structures and optical properties of 4-5 nm bimetallic AgAu nanoparticles. Faraday Discussions, 2008, 138, 363-373.	3.2	103
4	Indirect Band Gap of Light-Emitting BC ₂ N. Physical Review Letters, 1999, 83, 2406-2408.	7.8	81
5	Dialkyl Sulfides: Novel Passivating Agents for Gold Nanoparticles. Langmuir, 2002, 18, 1791-1795.	3.5	75
6	Weighing Supported Nanoparticles: Size-Selected Clusters as Mass Standards in Nanometrology. Physical Review Letters, 2008, 101, 246103.	7.8	70
7	Plasmon-Promoted Electrochemical Oxygen Evolution Catalysis from Gold Decorated MnO ₂ Nanosheets under Green Light. Advanced Functional Materials, 2018, 28, 1801573.	14.9	70
8	Effect of Size, Shape, and Surface Modification on Cytotoxicity of Gold Nanoparticles to Human HEP-2 and Canine MDCK Cells. Journal of Nanomaterials, 2012, 2012, 1-7.	2.7	68
9	Direct imaging of core-shell structure in silver-gold bimetallic nanoparticles. Applied Physics Letters, 2005, 87, 243103.	3.3	61
10	Gold nanorods for fluorescence lifetime imaging in biology. Journal of Biomedical Optics, 2010, 15, 020504.	2.6	59
11	Locating the nucleation sites for protein encapsulated gold nanoclusters: a molecular dynamics and fluorescence study. Physical Chemistry Chemical Physics, 2015, 17, 21935-21941.	2.8	47
12	Lysozyme encapsulated gold nanoclusters: effects of cluster synthesis on natural protein characteristics. Physical Chemistry Chemical Physics, 2017, 19, 7228-7235.	2.8	44
13	Two-photon excited surface plasmon enhanced energy transfer between DAPI and gold nanoparticles: Opportunities in intra-cellular imaging and sensing. Applied Physics Letters, 2011, 99, 103701.	3.3	32
14	Growth and surface-enhanced Raman scattering of Ag nanoparticle assembly in agarose gel. Measurement Science and Technology, 2012, 23, 084006.	2.6	32
15	Ordered Silver and Copper Nanorod Arrays for Enhanced Raman Scattering Created via Guided Oblique Angle Deposition on Polymer. Journal of Physical Chemistry C, 2014, 118, 4878-4884.	3.1	31
16	Investigations on Average Fluorescence Lifetimes for Visualizing Multi-Exponential Decays. Frontiers in Physics, 2020, 8, .	2.1	31
17	Human serum albumin encapsulated gold nanoclusters: effects of cluster synthesis on natural protein characteristics. Journal of Materials Chemistry B, 2016, 4, 6876-6882.	5.8	30
18	Comparative analysis of the toxicity of gold nanoparticles in zebrafish. Journal of Applied Toxicology, 2018, 38, 1153-1161.	2.8	28

#	ARTICLE	IF	CITATIONS
19	Local Three-Dimensional Visualization of Nanoparticle Assemblies. <i>Advanced Materials</i> , 2005, 17, 2885-2888.	21.0	25
20	Kinetic modelling of the shape-dependent evolution of faceted gold nanoparticles. <i>Journal of Materials Chemistry</i> , 2011, 21, 12239.	6.7	25
21	Energy transfer between a biological labelling dye and gold nanorods. <i>Methods and Applications in Fluorescence</i> , 2014, 2, 015002.	2.3	25
22	Surface plasmon enhanced energy transfer between gold nanorods and fluorophores: application to endocytosis study and RNA detection. <i>Faraday Discussions</i> , 2015, 178, 383-394.	3.2	25
23	Detecting lysozyme unfolding via the fluorescence of lysozyme encapsulated gold nanoclusters. <i>Journal of Materials Chemistry B</i> , 2019, 7, 1167-1175.	5.8	25
24	One-Dimensional Deep Learning Architecture for Fast Fluorescence Lifetime Imaging. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2021, 27, 1-10.	2.9	25
25	Processing and Characterization of Gold Nanoparticles for Use in Plasmon Probe Spectroscopy and Microscopy of Biosystems. <i>Annals of the New York Academy of Sciences</i> , 2008, 1130, 201-206.	3.8	24
26	Dye-doped polystyrene-coated gold nanorods: towards wavelength tuneable SPASER. <i>Methods and Applications in Fluorescence</i> , 2014, 2, 024004.	2.3	23
27	Nanoparticle Arrays Patterned by Electron-Beam Writing: Structure, Composition, and Electrical Properties. <i>Langmuir</i> , 2005, 21, 1556-1559.	3.5	22
28	Nanostructures from nanoparticles. <i>Journal of Physics Condensed Matter</i> , 2003, 15, S3047-S3063.	1.8	21
29	Controlling the formation of Au nanoparticles using functionalized molecular buffer layers. <i>Surface Science</i> , 2002, 497, 269-274.	1.9	19
30	Co-deposition of Atomic Clusters of Different Size and Composition. <i>Small</i> , 2006, 2, 1270-1272.	10.0	19
31	Hairpin DNA-functionalized gold nanorods for mRNA detection in homogenous solution. <i>Journal of Biomedical Optics</i> , 2016, 21, 097001.	2.6	18
32	Probing the Sudlow binding site with warfarin: how does gold nanocluster growth alter human serum albumin?. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 22874-22878.	2.8	17
33	Synthesis of Small Gold Nanorods and Their Subsequent Functionalization with Hairpin Single Stranded DNA. <i>ACS Omega</i> , 2019, 4, 13740-13746.	3.5	17
34	Weak adsorption of ethylene on GaAs(100). <i>Physical Review B</i> , 1998, 58, 1177-1180.	3.2	15
35	Creation and luminescence of size-selected gold nanorods. <i>Nanoscale</i> , 2012, 4, 5017.	5.6	15
36	Fast bi-exponential fluorescence lifetime imaging analysis methods. <i>Optics Letters</i> , 2015, 40, 336.	3.3	15

#	ARTICLE	IF	CITATIONS
37	Dynamic fluorescence lifetime sensing with CMOS single-photon avalanche diode arrays and deep learning processors. <i>Biomedical Optics Express</i> , 2021, 12, 3450.	2.9	14
38	HREELS studies of gold nanoparticles with dialkyl sulphide ligands. <i>Surface Science</i> , 2002, 502-503, 208-213.	1.9	13
39	Optimizing Laguerre expansion based deconvolution methods for analysing bi-exponential fluorescence lifetime images. <i>Optics Express</i> , 2016, 24, 13894.	3.4	12
40	HREELS study of alkanethiol passivated gold clusters on graphite. <i>Surface Science</i> , 2000, 454-456, 963-967.	1.9	11
41	Reflectance and surface enhanced Raman scattering (SERS) of sculptured silver films deposited at various vapor incident angles. <i>Measurement Science and Technology</i> , 2012, 23, 084007.	2.6	9
42	Formation of microcapsules by ultrasound stimulation for use in remote-controlled drug-eluting stents. <i>Medical Engineering and Physics</i> , 2018, 56, 42-47.	1.7	9
43	Sudlow site II of human serum albumin remains functional after gold nanocluster encapsulation: a fluorescence-based drug binding study of L-Dopa. <i>Methods and Applications in Fluorescence</i> , 2018, 6, 035017.	2.3	9
44	Lysozyme encapsulated gold nanoclusters for probing the early stage of lysozyme aggregation under acidic conditions. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2019, 197, 111540.	3.8	9
45	A rapid analysis platform for investigating the cellular locations of bacteria using two-photon fluorescence lifetime imaging microscopy. <i>Methods and Applications in Fluorescence</i> , 2020, 8, 034001.	2.3	9
46	Morphological Changes of Silica Shells Deposited on Gold Nanorods: Implications for Nanoscale Photocatalysts. <i>ACS Applied Nano Materials</i> , 2021, 4, 7730-7738.	5.0	9
47	Electromagnetic enhancement of ordered silver nanorod arrays evaluated by discrete dipole approximation. <i>Beilstein Journal of Nanotechnology</i> , 2015, 6, 686-696.	2.8	8
48	Polyallylamine hydrochloride coating enhances the fluorescence emission of Human Serum Albumin encapsulated gold nanoclusters. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2018, 187, 131-135.	3.8	8
49	Electrostatically Stabilised Nanoparticles: Self-Organization and Electron-Beam Patterning. <i>Journal of Nanoscience and Nanotechnology</i> , 2005, 5, 1826-1831.	0.9	8
50	Annealing effects on the microstructure of sputtered gold layers on oxidized silicon investigated by scanning electron microscopy and scanning probe microscopy. <i>Philosophical Magazine</i> , 2003, 83, 1137-1142.	1.6	7
51	A surface plasmon enhanced FLIM-FRET imaging approach based on Au nanoparticles. <i>Medical Devices and Diagnostic Engineering</i> , 2017, 2, .	0.1	6
52	Fast Analysis of Time-Domain Fluorescence Lifetime Imaging via Extreme Learning Machine. <i>Sensors</i> , 2022, 22, 3758.	3.8	6
53	Adsorption and decomposition of ethylene (C ₂ H ₄) on GaAs(100). <i>Surface Science</i> , 1999, 441, 192-198.	1.9	5
54	Gold nanorods for applications in biological imaging. , 2011, , .		5

#	ARTICLE	IF	CITATIONS
55	Revealing the photophysics of gold-nanobeacons via time-resolved fluorescence spectroscopy. Optics Letters, 2015, 40, 5738.	3.3	5
56	Towards unsupervised fluorescence lifetime imaging using low dimensional variable projection. Optics Express, 2016, 24, 26777.	3.4	5
57	On Synthetic Instrument Response Functions of Time-Correlated Single-Photon Counting Based Fluorescence Lifetime Imaging Analysis. Frontiers in Physics, 2021, 9, .	2.1	5
58	GPU acceleration of time-domain fluorescence lifetime imaging. Journal of Biomedical Optics, 2016, 21, 017001.	2.6	4
59	Histogram clustering for rapid time-domain fluorescence lifetime image analysis. Biomedical Optics Express, 2021, 12, 4293.	2.9	4
60	Gold nanoparticles for applications in energy and environment: synthesis and characterization. Rare Metals, 2011, 30, 116-120.	7.1	3
61	Study of Glucose Binding Protein Encapsulated Gold Nanoclusters by Molecular Dynamic Simulation. Materials Science Forum, 0, 948, 133-139.	0.3	3
62	Desorption of organic species from the GaAs (100) surface at low temperatures using low energy electron irradiation in a hydrogen ambient. Applied Physics Letters, 2000, 76, 3034-3036.	3.3	2
63	Charge transport in nanocrystal wires created by direct electron beam writing. Micro and Nano Letters, 2010, 5, 274.	1.3	2
64	Fluorescence anisotropy of protein - Gold nanoclusters. , 2012, , .		2
65	Hardware-friendly bi-exponential fluorescence lifetime imaging algorithms and phasor approaches. , 2015, , .		1
66	Superstructure of Nanoparticle Assembly by HAADF-STEM. Microscopy and Microanalysis, 2004, 10, 346-347.	0.4	0
67	Two-photon luminescence and energy transfer of gold nanorods for cell imaging. , 2012, , .		0
68	Hardware-friendly bi-exponential fluorescence lifetime imaging algorithms and phasor approaches. Proceedings of SPIE, 2015, , .	0.8	0
69	Endocytosis Study of Gold Nanoparticles through FRET-FLIM Approach. , 2017, , .		0
70	Critical role of tyrosine-20 in formation of gold nanoclusters within lysozyme: a molecular dynamics study. Physical Chemistry Chemical Physics, 2019, 21, 4907-4911.	2.8	0