

# Galya Orr Orr

## List of Publications by Year in descending order

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Version: 2024-02-01

61  
papers

3,744  
citations

136740

32  
h-index

128067

60  
g-index

62  
all docs

62  
docs citations

62  
times ranked

6509  
citing authors

#	ARTICLE	IF	CITATIONS
1	Particokinetics In Vitro: Dosimetry Considerations for In Vitro Nanoparticle Toxicity Assessments. <i>Toxicological Sciences</i> , 2007, 95, 300-312.	1.4	668
2	ISDD: A computational model of particle sedimentation, diffusion and target cell dosimetry for in vitro toxicity studies. <i>Particle and Fibre Toxicology</i> , 2010, 7, 36.	2.8	397
3	Interlaboratory Evaluation of <i>in Vitro</i> Cytotoxicity and Inflammatory Responses to Engineered Nanomaterials: The NIEHS Nano GO Consortium. <i>Environmental Health Perspectives</i> , 2013, 121, 683-690.	2.8	176
4	Localizing gene regulation reveals a staggered wood decay mechanism for the brown rot fungus <i>Postia placenta</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 10968-10973.	3.3	160
5	Malic Acid Carbon Dots: From Super-resolution Live-Cell Imaging to Highly Efficient Separation. <i>ACS Nano</i> , 2018, 12, 5741-5752.	7.3	135
6	Biological Responses to Engineered Nanomaterials: Needs for the Next Decade. <i>ACS Central Science</i> , 2015, 1, 117-123.	5.3	121
7	Cholesterol Dictates the Freedom of EGF Receptors and HER2 in the Plane of the Membrane. <i>Biophysical Journal</i> , 2005, 89, 1362-1373.	0.2	116
8	Functionalized Nanoporous Silica for the Removal of Heavy Metals from Biological Systems: Adsorption and Application. <i>ACS Applied Materials &amp; Interfaces</i> , 2010, 2, 2749-2758.	4.0	115
9	Probing Conformational Changes of Gramicidin Ion Channels by Single-Molecule Patch-Clamp Fluorescence Microscopy. <i>Biophysical Journal</i> , 2003, 85, 1826-1838.	0.2	114
10	Enzyme-Directed Assembly of Nanoparticles in Tumors Monitored by <i>in Vivo</i> Whole Animal Imaging and <i>ex Vivo</i> Super-Resolution Fluorescence Imaging. <i>Journal of the American Chemical Society</i> , 2013, 135, 18710-18713.	6.6	104
11	Lipopolysaccharide Density and Structure Govern the Extent and Distance of Nanoparticle Interaction with Actual and Model Bacterial Outer Membranes. <i>Environmental Science &amp; Technology</i> , 2015, 49, 10642-10650.	4.6	103
12	Synthesis, applications and potential photoluminescence mechanism of spectrally tunable carbon dots. <i>Nanoscale</i> , 2019, 11, 20411-20428.	2.8	96
13	Multicolor polymeric carbon dots: synthesis, separation and polyamide-supported molecular fluorescence. <i>Chemical Science</i> , 2021, 12, 2441-2455.	3.7	82
14	Effects of charge and surface ligand properties of nanoparticles on oxidative stress and gene expression within the gut of <i>Daphnia magna</i> . <i>Aquatic Toxicology</i> , 2015, 162, 1-9.	1.9	77
15	Direct Probes of 4 nm Diameter Gold Nanoparticles Interacting with Supported Lipid Bilayers. <i>Journal of Physical Chemistry C</i> , 2015, 119, 534-546.	1.5	77
16	The Highly Conserved MraZ Protein Is a Transcriptional Regulator in <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 2014, 196, 2053-2066.	1.0	69
17	Formation of supported lipid bilayers containing phase-segregated domains and their interaction with gold nanoparticles. <i>Environmental Science: Nano</i> , 2016, 3, 45-55.	2.2	68
18	Three human cell types respond to multi-walled carbon nanotubes and titanium dioxide nanobelts with cell-specific transcriptomic and proteomic expression patterns. <i>Nanotoxicology</i> , 2014, 8, 533-548.	1.6	59

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19	Aerosolized ZnO Nanoparticles Induce Toxicity in Alveolar Type II Epithelial Cells at the Air-Liquid Interface. <i>Toxicological Sciences</i> , 2012, 125, 450-461.	1.4	58
20	Comprehensive Metabolomic, Lipidomic and Microscopic Profiling of <i>Yarrowia lipolytica</i> during Lipid Accumulation Identifies Targets for Increased Lipogenesis. <i>PLoS ONE</i> , 2015, 10, e0123188.	1.1	54
21	Alexa Fluor-Labeled Fluorescent Cellulose Nanocrystals for Bioimaging Solid Cellulose in Spatially Structured Microenvironments. <i>Bioconjugate Chemistry</i> , 2015, 26, 593-601.	1.8	52
22	Shifts in oxidation states of cerium oxide nanoparticles detected inside intact hydrated cells and organelles. <i>Biomaterials</i> , 2015, 62, 147-154.	5.7	52
23	Intracellular accumulation dynamics and fate of zinc ions in alveolar epithelial cells exposed to airborne ZnO nanoparticles at the air-liquid interface. <i>Nanotoxicology</i> , 2015, 9, 9-22.	1.6	51
24	Multiple mechanisms drive phage infection efficiency in nearly identical hosts. <i>ISME Journal</i> , 2018, 12, 1605-1618.	4.4	48
25	Lipid Corona Formation from Nanoparticle Interactions with Bilayers. <i>Chem</i> , 2018, 4, 2709-2723.	5.8	46
26	The Long Noncoding RNA Paupar Modulates PAX6 Regulatory Activities to Promote Alpha Cell Development and Function. <i>Cell Metabolism</i> , 2019, 30, 1091-1106.e8.	7.2	45
27	Submicrometer and Nanoscale Inorganic Particles Exploit the Actin Machinery To Be Propelled along Microvilli-like Structures into Alveolar Cells. <i>ACS Nano</i> , 2007, 1, 463-475.	7.3	42
28	Regulation of infection efficiency in a globally abundant marine <i>Bacteriodes</i> virus. <i>ISME Journal</i> , 2017, 11, 284-295.	4.4	40
29	Tumor Retention of Enzyme-Responsive Pt(II) Drug-Loaded Nanoparticles Imaged by Nanoscale Secondary Ion Mass Spectrometry and Fluorescence Microscopy. <i>ACS Central Science</i> , 2018, 4, 1477-1484.	5.3	39
30	Distinct Strains of <i>Toxoplasma gondii</i> Feature Divergent Transcriptomes Regardless of Developmental Stage. <i>PLoS ONE</i> , 2014, 9, e111297.	1.1	37
31	Cellular Delivery of Nanoparticles Revealed with Combined Optical and Isotopic Nanoscopy. <i>ACS Nano</i> , 2016, 10, 4046-4054.	7.3	36
32	<i>Dichomitus squalens</i> partially tailors its molecular responses to the composition of solid wood. <i>Environmental Microbiology</i> , 2018, 20, 4141-4156.	1.8	36
33	Fluctuation localization imaging-based fluorescence in situ hybridization (fliFISH) for accurate detection and counting of RNA copies in single cells. <i>Nucleic Acids Research</i> , 2018, 46, e7-e7.	6.5	31
34	Syndecan-1 mediates the coupling of positively charged submicrometer amorphous silica particles with actin filaments across the alveolar epithelial cell membrane. <i>Toxicology and Applied Pharmacology</i> , 2009, 236, 210-220.	1.3	29
35	Probing ion channel conformational dynamics using simultaneous single-molecule ultrafast spectroscopy and patch-clamp electric recording. <i>Applied Physics Letters</i> , 2004, 84, 1792-1794.	1.5	26
36	Quantitative Mapping of Oxidative Stress Response to Lithium Cobalt Oxide Nanoparticles in Single Cells Using Multiplexed <i>in Situ</i> Gene Expression Analysis. <i>Nano Letters</i> , 2019, 19, 1990-1997.	4.5	25

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37	Enhancing Graduate Student Communication to General Audiences through Blogging about Nanotechnology and Sustainability. <i>Journal of Chemical Education</i> , 2014, 91, 1600-1605.	1.1	21
38	Cells Respond to Distinct Nanoparticle Properties with Multiple Strategies As Revealed by Single-Cell RNA-Seq. <i>ACS Nano</i> , 2016, 10, 10173-10185.	7.3	21
39	Facile method to stain the bacterial cell surface for super-resolution fluorescence microscopy. <i>Analyst</i> , 2014, 139, 3174-3178.	1.7	20
40	Multi-time series RNA-seq analysis of <i>Enterobacter lignolyticus</i> SCF1 during growth in lignin-amended medium. <i>PLoS ONE</i> , 2017, 12, e0186440.	1.1	20
41	Impact of lithiated cobalt oxide and phosphate nanoparticles on rainbow trout gill epithelial cells. <i>Nanotoxicology</i> , 2018, 12, 1166-1181.	1.6	20
42	Chemical plasticity in the fine root construct of <i>Quercus</i> spp. varies with root order and drought. <i>New Phytologist</i> , 2020, 228, 1835-1851.	3.5	20
43	Antigen Binding and Site-Directed Labeling of Biosilica-Immobilized Fusion Proteins Expressed in Diatoms. <i>ACS Synthetic Biology</i> , 2016, 5, 193-199.	1.9	15
44	Colonies of the fungus <i>Aspergillus niger</i> are highly differentiated to adapt to local carbon source variation. <i>Environmental Microbiology</i> , 2020, 22, 1154-1166.	1.8	15
45	Analysis of carbohydrate storage granules in the diazotrophic cyanobacterium <i>Cyanothece</i> sp. PCC 7822. <i>Photosynthesis Research</i> , 2013, 118, 25-36.	1.6	14
46	Research highlights: examining the effect of shape on nanoparticle interactions with organisms. <i>Environmental Science: Nano</i> , 2016, 3, 696-700.	2.2	13
47	Preferential interactions of primary amine-terminated quantum dots with membrane domain boundaries and lipid rafts revealed with nanometer resolution. <i>Environmental Science: Nano</i> , 2020, 7, 149-161.	2.2	12
48	Unconventional aliphatic fluorophores discovered as the luminescence origin in citric acid-urea carbon dots. <i>Nanoscale</i> , 2022, 14, 9516-9525.	2.8	12
49	Hydroporphyrin-Doped Near-Infrared-Emitting Polymer Dots for Cellular Fluorescence Imaging. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 20790-20801.	4.0	10
50	Reference genes for accurate normalization of gene expression in wood-decomposing fungi. <i>Fungal Genetics and Biology</i> , 2019, 123, 33-40.	0.9	7
51	Understanding super-resolution nanoscopy and its biological applications in cell imaging. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 14856.	1.3	6
52	High resolution visualization and exo-proteomics reveal the physiological role of XlnR and AraR in plant biomass colonization and degradation by <i>Aspergillus niger</i> . <i>Environmental Microbiology</i> , 2017, 19, 4587-4598.	1.8	6
53	Single Molecule-Based fliFISH Validates Radial and Heterogeneous Gene Expression Patterns in Pancreatic Islet $\beta$ -Cells. <i>Diabetes</i> , 2021, 70, 1117-1122.	0.3	6
54	NEW CHALLENGES FACING INTEGRATIVE BIOLOGICAL SCIENCE IN THE POST-GENOMIC ERA. <i>Journal of Biological Systems</i> , 2006, 14, 275-293.	0.5	4

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55	Subtoxic dose of lithium cobalt oxide nanosheets impacts critical molecular pathways in trout gill epithelial cells. <i>Environmental Science: Nano</i> , 2020, 7, 3419-3430.	2.2	4
56	Multi-omic Data Integration Links Deleted in Breast Cancer 1 (DBC1) Degradation to Chromatin Remodeling in Inflammatory Response. <i>Molecular and Cellular Proteomics</i> , 2013, 12, 2136-2147.	2.5	3
57	Counting mRNA Copies in Intact Bacterial Cells by Fluctuation Localization Imaging-Based Fluorescence In Situ Hybridization (fliFISH). <i>Methods in Molecular Biology</i> , 2021, 2246, 237-247.	0.4	3
58	Expression Patterns of Energy-Related Genes in Single Cells Uncover Key Isoforms and Enzymes That Gain Priority Under Nanoparticle-Induced Stress. <i>ACS Nano</i> , 2022, 16, 7197-7209.	7.3	3
59	Fluorescence in situ mRNA hybridization for gene expression detection in a wood decay fungus. <i>International Biodeterioration and Biodegradation</i> , 2019, 143, 104731.	1.9	2
60	Rosette core fungal resistance in <i>Arabidopsis thaliana</i> . <i>Planta</i> , 2019, 250, 1941-1953.	1.6	2
61	Redesign of hydrophobic quantum dots mitigates ligand-dependent toxicity in the nematode <i>C. elegans</i> . <i>NanoImpact</i> , 2021, 22, 100318.	2.4	1