

# Antigoni Alexandrou

## List of Publications by Year in descending order

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70  
papers

3,109  
citations

185998

28  
h-index

155451

55  
g-index

72  
all docs

72  
docs citations

72  
times ranked

4388  
citing authors

#	ARTICLE	IF	CITATIONS
1	Biological Applications of Rare-Earth Based Nanoparticles. ACS Nano, 2011, 5, 8488-8505.	7.3	522
2	Circulating cell membrane microparticles transfer heme to endothelial cells and trigger vasoocclusions in sickle cell disease. Blood, 2015, 125, 3805-3814.	0.6	217
3	Rails and anchors: guiding and trapping droplet microreactors in two dimensions. Lab on A Chip, 2011, 11, 813-821.	3.1	190
4	Functionalized Fluorescent Oxide Nanoparticles: Artificial Toxins for Sodium Channel Targeting and Imaging at the Single-Molecule Level. Nano Letters, 2004, 4, 2079-2083.	4.5	181
5	Fourier-transform coherent anti-Stokes Raman scattering microscopy. Optics Letters, 2006, 31, 480.	1.7	124
6	Multifunctional Rare-Earth Vanadate Nanoparticles: Luminescent Labels, Oxidant Sensors, and MRI Contrast Agents. ACS Nano, 2014, 8, 11126-11137.	7.3	116
7	High Up-Conversion Efficiency of $\text{YVO}_4\text{:Yb,Er}$ Nanoparticles in Water down to the Single-Particle Level. Journal of Physical Chemistry C, 2010, 114, 22449-22454.	1.5	113
8	Electric-field effects on exciton lifetimes in symmetric coupled GaAs/Al <sub>0.3</sub> Ga <sub>0.7</sub> As double quantum wells. Physical Review B, 1990, 42, 9225-9228.	1.1	94
9	Single europium-doped nanoparticles measure temporal pattern of reactive oxygen species production inside cells. Nature Nanotechnology, 2009, 4, 581-585.	15.6	90
10	Counting the Number of Proteins Coupled to Single Nanoparticles. Journal of the American Chemical Society, 2007, 129, 12592-12593.	6.6	87
11	Coherent vibrational climbing in carboxyhemoglobin. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 13216-13220.	3.3	86
12	Ultrafast Electron Redistribution through Coulomb Scattering in Undoped GaAs: Experiment and Theory. Physical Review Letters, 1996, 77, 5429-5432.	2.9	81
13	A Bayesian Inference Scheme to Extract Diffusivity and Potential Fields from Confined Single-Molecule Trajectories. Biophysical Journal, 2012, 102, 2288-2298.	0.2	74
14	New Insights into Size Effects in Luminescent Oxide Nanocrystals. Journal of Physical Chemistry C, 2009, 113, 18699-18706.	1.5	72
15	Organic Functionalization of Luminescent Oxide Nanoparticles toward Their Application As Biological Probes. Langmuir, 2008, 24, 11018-11026.	1.6	70
16	Fourier transform measurement of two-photon excitation spectra: applications to microscopy and optimal control. Optics Letters, 2005, 30, 911.	1.7	63
17	Evidence of polariton stimulation in semiconductor microcavities. Physical Review B, 2000, 62, R2279-R2282.	1.1	61
18	The tetraspanin CD9 controls migration and proliferation of parietal epithelial cells and glomerular disease progression. Nature Communications, 2019, 10, 3303.	5.8	52

#	ARTICLE	IF	CITATIONS
19	Doubly and triply resonant raman scattering by LO phonons in GaAs/AlAs superlattices. <i>Physical Review B</i> , 1988, 38, 2196-2199.	1.1	50
20	Sickling of red blood cells through rapid oxygen exchange in microfluidic drops. <i>Lab on A Chip</i> , 2010, 10, 2505.	3.1	48
21	Tamm states in superlattices. <i>Surface Science</i> , 1992, 267, 161-165.	0.8	47
22	Emission properties and applications of nanostructured luminescent oxide nanoparticles. <i>Progress in Solid State Chemistry</i> , 2005, 33, 99-106.	3.9	43
23	Dependence of the carrier lifetime on acceptor concentration in GaAs grown at low-temperature under different growth and annealing conditions. <i>Journal of Applied Physics</i> , 2000, 88, 6026-6031.	1.1	41
24	Direct observation of electron relaxation in intrinsic GaAs using femtosecond pump-probe spectroscopy. <i>Physical Review B</i> , 1995, 52, 4654-4657.	1.1	39
25	Single Lanthanide-doped Oxide Nanoparticles as Donors in Fluorescence Resonance Energy Transfer Experiments. <i>Journal of Physical Chemistry B</i> , 2006, 110, 19264-19270.	1.2	39
26	Direct observation of ligand transfer and bond formation in cytochrome <i>c</i> oxidase by using mid-infrared chirped-pulse upconversion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 15705-15710.	3.3	36
27	Infrared spectroscopy of self-organized InAs nanostructures grown on InAlAs/InP(001) for infrared photodetection applications. <i>Infrared Physics and Technology</i> , 2001, 42, 443-451.	1.3	33
28	Interplay between Landau and Stark quantizations in GaAs/Ga <sub>0.65</sub> Al <sub>0.35</sub> As superlattices. <i>Physical Review B</i> , 1991, 44, 1934-1937.	1.1	30
29	Observing the Confinement Potential of Bacterial Pore-Forming Toxin Receptors Inside Rafts with Nonblinking Eu <sup>3+</sup> -Doped Oxide Nanoparticles. <i>Biophysical Journal</i> , 2012, 102, 2299-2308.	0.2	30
30	Quantifying Biomolecule Diffusivity Using an Optimal Bayesian Method. <i>Biophysical Journal</i> , 2010, 98, 596-605.	0.2	24
31	Probing Membrane Protein Interactions with Their Lipid Raft Environment Using Single-Molecule Tracking and Bayesian Inference Analysis. <i>PLoS ONE</i> , 2013, 8, e53073.	1.1	24
32	Fast quantitative ROS detection based on dual-color single rare-earth nanoparticle imaging reveals signaling pathway kinetics in living cells. <i>Nanoscale</i> , 2017, 9, 656-665.	2.8	24
33	Triply resonant second-order Raman scattering in GaAs. <i>Solid State Communications</i> , 1987, 64, 1029-1034.	0.9	20
34	Luminescent oxide nanoparticles with enhanced optical properties. <i>Journal of Luminescence</i> , 2009, 129, 1706-1710.	1.5	20
35	Influence of the hole population on the transient reflectivity signal of annealed low-temperature-grown GaAs. <i>Applied Physics Letters</i> , 2002, 80, 2505-2507.	1.5	19
36	Suppression of perturbed free-induction decay and noise in experimental ultrafast pump-probe data. <i>Optics Letters</i> , 2009, 34, 3226.	1.7	18

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37	Ultra-wide range field-dependent measurements of the relaxivity of Gd <sup>3+</sup> /EuVO <sub>4</sub> nanoparticle contrast agents using a mechanical sample-shuttling relaxometer. <i>Scientific Reports</i> , 2017, 7, 44770.	1.6	18
38	Optical in situ size determination of single lanthanide-ion doped oxide nanoparticles. <i>Applied Physics Letters</i> , 2006, 89, 253103.	1.5	15
39	Exciton effects in stress-induced doubly resonant Raman scattering: GaAs. <i>Physical Review B</i> , 1988, 38, 10744-10748.	1.1	14
40	Nonequilibrium plasmons in optically excited semiconductors. <i>Physical Review B</i> , 2000, 62, 15724-15734.	1.1	14
41	Theoretical model of stress-induced triply resonant Raman scattering. <i>Physical Review B</i> , 1989, 40, 1603-1610.	1.1	13
42	Intensity-invariant subpicosecond absorption saturation in heavy-ion irradiated bulk GaAs. <i>Applied Physics Letters</i> , 1998, 73, 3715-3717.	1.5	13
43	Receptor Displacement in the Cell Membrane by Hydrodynamic Force Amplification through Nanoparticles. <i>Biophysical Journal</i> , 2013, 105, 116-126.	0.2	13
44	Regulation of the ROS Response Dynamics and Organization to PDGF Motile Stimuli Revealed by Single Nanoparticle Imaging. <i>Chemistry and Biology</i> , 2014, 21, 647-656.	6.2	13
45	Doubly and triply resonant Raman scattering via electron-phonon and impurity-induced Fröhlich interactions in uniaxially stressed GaAs. <i>Physical Review B</i> , 1989, 40, 1013-1022.	1.1	12
46	Calibrating optical tweezers with Bayesian inference. <i>Optics Express</i> , 2013, 21, 31578.	1.7	12
47	Sub-picosecond wideband efficient saturable absorber created by high energy (200 MeV) irradiation of Au <sup>+</sup> ions into bulk GaAs. <i>Electronics Letters</i> , 1998, 34, 818.	0.5	11
48	Competition between magnetic-field- and electric-field-induced localizations in GaAs/Ga <sub>0.65</sub> Al <sub>0.35</sub> As superlattices. <i>Physical Review B</i> , 1991, 44, 13124-13127.	1.1	9
49	Ultrafast in-well screening of the piezoelectric field in (111) quantum wells. <i>Physical Review B</i> , 1996, 53, R16172-R16175.	1.1	9
50	Single YVO <sub>4</sub> :Eu nanoparticle emission spectra using direct Eu <sup>3+</sup> ion excitation with a sum-frequency 465-nm solid-state laser. <i>Optics Express</i> , 2014, 22, 20542.	1.7	9
51	Hole delocalization in CdTe/Cd <sub>1-x</sub> Zn <sub>x</sub> Te quantum wells. <i>Physical Review B</i> , 1994, 50, 2727-2730.	1.1	8
52	Ultrafast relaxation of photoexcited electrons in undoped GaAs measured by absorption saturation of spin-orbit-split transitions. <i>Physica Status Solidi (B): Basic Research</i> , 1995, 188, 335-341.	0.7	7
53	Intracavity white-light continuum generation in a femtosecond Ti:sapphire oscillator. <i>Applied Physics Letters</i> , 1998, 73, 2257-2259.	1.5	7
54	Differential Interaction Kinetics of a Bipolar Structure-Specific Endonuclease with DNA Flaps Revealed by Single-Molecule Imaging. <i>PLoS ONE</i> , 2014, 9, e113493.	1.1	6

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55	Ultrafast Electron Relaxation through Coulomb Collisions in GaAs. <i>Physica Status Solidi (B): Basic Research</i> , 1997, 204, 293-299.	0.7	5
56	Experimental evidence for the effect of nonequilibrium acoustic plasmons on carrier relaxation in bulk semiconductors. <i>Physical Review B</i> , 1999, 60, R8453-R8456.	1.1	4
57	Intraband spectroscopy of self-organized InAs/InAlAs nanostructures grown on. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2003, 17, 82-83.	1.3	4
58	Triply resonant second-order Raman scattering at the $E_0$ and $E_0 + \Gamma$ gap of GaP under uniaxial stress. <i>Physical Review B</i> , 1989, 39, 8308-8312.	1.1	3
59	Femtosecond mid-infrared study of electron dynamics in InAs/InAlAs quantum dots. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2000, 7, 151-154.	1.3	3
60	Mechanism of Polariton-Stimulation in a CdTe-Based Microcavity. <i>Physica Status Solidi A</i> , 2000, 178, 129-132.	1.7	2
61	ROS Detection and Quantification with Lanthanide-Based Nanosensors. <i>Biophysical Journal</i> , 2015, 108, 483a.	0.2	2
62	Hole intersubband relaxation in CdTe/CdMnTe quantum wells. <i>Applied Physics Letters</i> , 1997, 71, 788-790.	1.5	1
63	Evidence of Polariton Stimulation in Semiconductor Microcavities. <i>Physica Status Solidi A</i> , 2001, 183, 29-33.	1.7	1
64	<title>Control of low-temperature-grown GaAs for ultrafast switching applications</title>. , 2001, , .		0
65	Functionalized Luminescent Oxide Nanoparticles as Biological Probes. <i>Materials Research Society Symposia Proceedings</i> , 2006, 942, 1.	0.1	0
66	Light Emission Properties and Biological Applications of Lanthanide Doped Oxide Nanoparticles. <i>Materials Research Society Symposia Proceedings</i> , 2007, 1064, 2071.	0.1	0
67	Luminescent oxide nanoparticles with enhanced optical properties. <i>Proceedings of SPIE</i> , 2008, , .	0.8	0
68	Simultaneous observation of ultrafast ligand dissociation and docking-site trapping in heme proteins using upconversion infrared spectroscopy. , 2010, , .		0
69	Optical tweezers calibration with Bayesian inference. <i>Proceedings of SPIE</i> , 2014, , .	0.8	0
70	Direct observation of ligand transfer and bond formation in cytochrome c oxidase using mid-infrared chirped-pulse upconversion. <i>Springer Series in Chemical Physics</i> , 2009, , 541-543.	0.2	0