

# Ahmet A Yanik

## List of Publications by Year in descending order

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96  
papers

4,466  
citations

270111

25  
h-index

371746

37  
g-index

96  
all docs

96  
docs citations

96  
times ranked

6253  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanoporous Metals: From Plasmonic Properties to Applications in Enhanced Spectroscopy and Photocatalysis. ACS Nano, 2021, 15, 6038-6060.	7.3	120
2	Neuro-SWARM <sup>3</sup> : System-on-a-Nanoparticle for Wireless Recording of Brain Activity. IEEE Photonics Technology Letters, 2021, 33, 900-903.	1.3	5
3	NeuroSWARM3: Injectable Electro-Plasmonic Nanosensors for Wireless Recording of the Brain Activity. , 2021, , .		0
4	Electro-Plasmonic Biosensors for Ultrasensitive Imaging of Electric Field Dynamics and Bioelectric Cell Signaling. , 2021, , .		0
5	Electro-Active Plasmonics for Label-Free Voltage Sensing and Electrophysiology. , 2020, , .		0
6	Beyond Noble Metals: High $Q$ -Factor Aluminum Nanoplasmonics. ACS Photonics, 2020, 7, 416-424.	3.2	39
7	Mechanisms of Fano-resonant biosensing: Mechanical loading of plasmonic oscillators. Optics Communications, 2020, 469, 125780.	1.0	10
8	Active plasmonic nanoantenna: an emerging toolbox from photonics to neuroscience. Nanophotonics, 2020, 9, 3805-3829.	2.9	15
9	Optofluidic Chromatography: A Tunable Plasmonic Microlens for Label-Free On-Flight Sorting of Exosomes. , 2020, , .		0
10	Electro-plasmonic nanoresonators for wireless voltage sensing and ultra-high bandwidth brain computer interfaces. , 2020, , .		0
11	Ultrasensitive Field-Effect Plasmonics: Electro-Active Probes for Wireless Voltage Sensing and Electrophysiology. , 2020, , .		0
12	Aluminum Outshines Silver: Radiative Decay Engineering and Ultrahigh $Q$ -Factor Plasmonics with a Lossy Metal. , 2020, , .		0
13	Electro-plasmonic nanoantenna: A nonfluorescent optical probe for ultrasensitive label-free detection of electrophysiological signals. Science Advances, 2019, 5, eaav9786.	4.7	33
14	Plasmofluidic Microlenses for Label-Free Optical Sorting of Exosomes. Scientific Reports, 2019, 9, 8593.	1.6	9
15	Optofluidic chromatography: label-free sorting of exosomes with plasmonic microlenses. , 2019, , .		2
16	Plasmofluidic Nanoporous Gold Membranes for Ultrasensitive Raman Spectroscopy. , 2019, , .		1
17	Nanostructure Introduces Artifacts in Quantitative Immunofluorescence by Influencing Fluorophore Intensity. Scientific Reports, 2017, 7, 427.	1.6	7
18	Nanoplasmonic lenses for bacteria sorting (Presentation Recording). Proceedings of SPIE, 2015, , .	0.8	0

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19	Hot-Electron Plasmonics: Quantum Transport Limitations. , 2015, , .		0
20	Hot electron pump: a plasmonic rectifying antenna (Presentation Recording). Proceedings of SPIE, 2015, , .	0.8	0
21	Hot Electrons in Plasmonic Devices: Internal Photoemission and Quantum Limitations. , 2015, , .		0
22	Plasmonic NanoLenses: Size Based Sorting of Bacteria Like Bio-Particles. , 2015, , .		0
23	Ultrasensitive optofluidic-nanoplasmonic BioNEMS for life sciences and point-of-care diagnostics. , 2014, , .		0
24	Discontinuous Nanoporous Membranes Reduce Non-specific Fouling for Immunoaffinity Cell Capture. Small, 2013, 9, 4207-4214.	5.2	11
25	Optical Trapping, Biosensing, and Spectroscopy in a Single Plasmonic Platform. Materials Research Society Symposia Proceedings, 2012, 1414, 15.	0.1	0
26	Plasmon induced transparency in cascaded U-shaped structures. Proceedings of SPIE, 2012, , .	0.8	0
27	Fano-resonant asymmetric metamaterials for ultrasensitive spectroscopy and identification of molecular monolayers. Nature Materials, 2012, 11, 69-75.	13.3	930
28	Field-effect active plasmonics for ultracompact electro-optic switching. Applied Physics Letters, 2012, 101, 121113.	1.5	29
29	Large-scale Plasmonic Microarray: A New Approach for Label-free High-throughput Biosensing and Screening. , 2012, , .		2
30	Fano-resonant Asymmetric Metamaterials for Sensing and Vibrational Fingerprinting of Protein Monolayers. , 2012, , .		0
31	Plasmon Induced Transparency with Asymmetric U-Shaped Metamaterials. , 2012, , .		0
32	Monopole antenna arrays for optical trapping, spectroscopy, and sensing. Applied Physics Letters, 2011, 98, .	1.5	72
33	On Chip Plasmonic Monopole Nano-Antennas and Circuits. Nano Letters, 2011, 11, 5219-5226.	4.5	64
34	Multi-resonant metamaterials based on UT-shaped nano-aperture antennas. Optics Express, 2011, 19, 7921.	1.7	50
35	Angle-and polarization-dependent collective excitation of plasmonic nanoarrays for surface enhanced infrared spectroscopy. Optics Express, 2011, 19, 11202.	1.7	27
36	Plasmon induced transparency in cascaded U-shaped metamaterials. Optics Express, 2011, 19, 22607.	1.7	57

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37	Large-scale plasmonic microarrays for label-free high-throughput screening. Lab on A Chip, 2011, 11, 3596.	3.1	87
38	Directional Double Fano Resonances in Plasmonic Hetero-Oligomers. Nano Letters, 2011, 11, 3694-3700.	4.5	142
39	Multispectral Plasmon Induced Transparency in Coupled Meta-Atoms. Nano Letters, 2011, 11, 1685-1689.	4.5	220
40	High-throughput Fabrication of Plasmonic Nanoantenna Arrays Using Nanostencils for Spectroscopy and Biosensing. , 2011, , .		0
41	U-shaped nano-apertures for enhanced optical transmission and resolution. Proceedings of SPIE, 2011, , .	0.8	1
42	Nanostencil lithography for high-throughput fabrication of infrared plasmonic sensors. , 2011, , .		3
43	Optical properties of UT-shaped plasmonic nanoaperture antennas. Proceedings of SPIE, 2011, , .	0.8	0
44	High-throughput engineering of infrared plasmonic nanoantenna arrays with nanostencil lithography. Proceedings of SPIE, 2011, , .	0.8	0
45	Multi-Spectral Plasmon Induced Transparency with Hybridized Metamaterials. , 2011, , .		1
46	Flexible Plasmonics on Unconventional and Nonplanar Substrates. Advanced Materials, 2011, 23, 4422-4430.	11.1	221
47	Flexible Plasmonics: Flexible Plasmonics on Unconventional and Nonplanar Substrates (Adv. Mater.) Tj ETQq1 1 0.784314 rgBT /Overlaid	11.1	4
48	Plasmon enhanced detectors for smart lighting applications. , 2011, , .		0
49	Ultrasensitive plasmonic fano sensor enables seeing protein monolayers with naked eye. , 2011, , .		1
50	Compact and multi-resonant plasmonic metamaterials based on nano-apertures. , 2011, , .		0
51	Seeing protein monolayers with naked eye through plasmonic Fano resonances. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 11784-11789.	3.3	445
52	High-throughput nanofabrication of plasmonic structures and metamaterials with high resolution nanostencil lithography. Proceedings of SPIE, 2011, , .	0.8	1
53	PLASMONICS FOR ULTRASENSITIVE NANOSPECTROSCOPY AND OPTOFLUIDIC-PLASMONICS BIOSENSORS. World Scientific Series in Nanoscience and Nanotechnology, 2011, , 167-195.	0.1	0
54	Plasmonic nanopillar arrays for optical trapping, biosensing, and spectroscopy. , 2011, , .		2

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55	Integrated plasmonic systems for ultrasensitive spectroscopy and biodetection. , 2011, , .		0
56	Plasmonic Monopole Antenna Arrays for Biosensing, Spectroscopy and nm-Precision Optical Trapping. , 2011, , .		2
57	Ultrasensitive Label Free Biosensors Enables Seeing Protein Monolayers with The Naked Eye. , 2011, , .		0
58	Metamaterials, Plasmonics, and Nanofluidics for Ultrasensitive Spectroscopy and Bio-detection. , 2011, , .		0
59	High Resolution Large Area Nanopatterning for Plasmonics and Metamaterials with Nanostencil Lithography. , 2011, , .		1
60	Optical Trapping and Manipulation with Plasmonic Nanopillar Antennas for Enhanced Biosensing. , 2011, , .		0
61	On-chip nanoplasmonic biosensors with actively controlled nanofluidic surface delivery. , 2010, , .		2
62	On-Chip Nanoplasmonic-Nanofluidic Biosensors Overcoming Mass Transport Limitations. , 2010, , .		0
63	Surface Enhanced Vibrational Spectroscopy of Proteins with Plasmonic Nanoantenna Arrays. Materials Research Society Symposia Proceedings, 2010, 1248, 1002.	0.1	0
64	Radiative engineering of nanoantenna arrays for ultrasensitive vibrational spectroscopy of proteins. Proceedings of SPIE, 2010, , .	0.8	1
65	Integrated nanoplasmonic-nanofluidic biosensors with targeted delivery of analytes. Applied Physics Letters, 2010, 96, .	1.5	188
66	Light tunneling in multi-layered plasmonic crystals. , 2010, , .		0
67	Integration of sub-wavelength nanofluidics on suspended photonic crystal sensors. Proceedings of SPIE, 2010, , .	0.8	0
68	Design Principles for Optoelectronic Applications of Extraordinary Light Transmission Effect in Plasmonics Nanoapertures. Journal of Nanoscience and Nanotechnology, 2010, 10, 1713-1718.	0.9	0
69	Ultra-Sensitive Infrared Spectroscopy of Proteins with Collective Excitations of Nanoplasmonic Arrays. , 2010, , .		0
70	Plasmonics for ultrasensitive biomolecular nanospectroscopy. , 2010, , .		1
71	Novel plasmonic biosensors molding the flow of light and fluidics at subdiffraction limit. , 2010, , .		0
72	Radiative engineering of plasmon lifetimes in embedded nanoantenna arrays. Optics Express, 2010, 18, 4526.	1.7	107

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73	An Optofluidic Nanoplasmonic Biosensor for Direct Detection of Live Viruses from Biological Media. Nano Letters, 2010, 10, 4962-4969.	4.5	408
74	High-Throughput Nanofabrication of Infrared Plasmonic Nanoantenna Arrays for Vibrational Nanospectroscopy. Nano Letters, 2010, 10, 2511-2518.	4.5	209
75	Engineered plasmonic nanoantenna arrays with nanostencil lithography. , 2010, , .		0
76	Nanoplasmonic systems for ultrasensitive biomolecular detection and identification. , 2010, , .		0
77	Light Tunneling in Multi-Layered Photonic-Plasmonic Nanostructures. , 2010, , .		0
78	Sub-wavelength Nano-fluidics on Suspended Photonic Crystal Sensors. , 2010, , .		0
79	Fabry-Perot Nanocavities in 3D Plasmonic Crystals. , 2009, , .		0
80	Surface excitation of hybridized plasmons in metallic nanocavities. , 2009, , .		0
81	Sharp plasmon resonances in periodic arrays of embedded nanorods. , 2009, , .		0
82	Ultra-sensitive vibrational spectroscopy of protein monolayers with plasmonic nanoantenna arrays. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 19227-19232.	3.3	593
83	Hybridized nanocavities as single-polarized plasmonic antennas. Optics Express, 2009, 17, 20900.	1.7	28
84	Sub-wavelength nanofluidics in photonic crystal sensors. Optics Express, 2009, 17, 24224.	1.7	114
85	Observation of plasmon resonance linewidth narrowing in embedded gold nanoparticle arrays. , 2009, , .		0
86	Fabry-Perot nanocavities in 3D plasmonic crystals for enhanced biosensing. , 2009, , .		3
87	Fabry-Perot nanocavities in multilayered plasmonic crystals for enhanced biosensing. Applied Physics Letters, 2009, 95, .	1.5	87
88	Plasmon hybridization in nanoapertures for development of an efficient nanoantenna array. Proceedings of SPIE, 2009, , .	0.8	1
89	Localized plasmonic control of extraordinary light transmission in rectangular coaxial aperture arrays at mid-IR. , 2009, , .		0
90	Creation of Hybridized Plasmonic Excitations in Nanocavities Through Surface Propagating Plasmons. , 2009, , .		0

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91	Intracellular quantification by surface enhanced Raman spectroscopy. Chemical Physics Letters, 2008, 461, 131-135.	1.2	30
92	Extraordinary midinfrared transmission of rectangular coaxial nanoaperture arrays. Applied Physics Letters, 2008, 93, .	1.5	41
93	Mid-infrared subwavelength polarization optics with plasmonic nanostructures. , 2008, , .		1
94	Quantum transport with spin dephasing: A nonequilibrium Greenâ€™s function approach. Physical Review B, 2007, 76, .	1.1	38
95	Coherent transport in SWCNTs with spin-orbit coupling. , 0, , .		0
96	Plasmonic Nanopores: Optofluidic Separation of Nano-Bioparticles via Negative Depletion. , 0, , .		0