

Christos Argyropoulos

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6454300/publications.pdf>

Version: 2024-02-01

131
papers

5,739
citations

109137

35
h-index

76769

74
g-index

132
all docs

132
docs citations

132
times ranked

5983
citing authors

#	ARTICLE	IF	CITATIONS
1	Probing the mechanisms of large Purcell enhancement in plasmonic nanoantennas. Nature Photonics, 2014, 8, 835-840.	15.6	849
2	Giant nonlinear response from plasmonic metasurfaces coupled to intersubband transitions. Nature, 2014, 511, 65-69.	13.7	550
3	Ultrafast spontaneous emission source using plasmonic nanoantennas. Nature Communications, 2015, 6, 7788.	5.8	345
4	Boosting optical nonlinearities in $\hat{\mu}$ -near-zero plasmonic channels. Physical Review B, 2012, 85, .	1.1	200
5	Leveraging Nanocavity Harmonics for Control of Optical Processes in 2D Semiconductors. Nano Letters, 2015, 15, 3578-3584.	4.5	200
6	Broadband absorbers and selective emitters based on plasmonic Brewster metasurfaces. Physical Review B, 2013, 87, .	1.1	183
7	Terahertz Antenna Phase Shifters Using Integrally-Gated Graphene Transmission-Lines. IEEE Transactions on Antennas and Propagation, 2013, 61, 1528-1537.	3.1	174
8	Broadband polarizers based on graphene metasurfaces. Optics Letters, 2016, 41, 5592.	1.7	170
9	Broadening the Cloaking Bandwidth with Non-Foster Metasurfaces. Physical Review Letters, 2013, 111, 233001.	2.9	167
10	Negative refraction, gain and nonlinear effects in hyperbolic metamaterials. Optics Express, 2013, 21, 15037.	1.7	152
11	Nonlinear Plasmonic Cloaks to Realize Giant All-Optical Scattering Switching. Physical Review Letters, 2012, 108, 263905.	2.9	139
12	Full-wave finite-difference time-domain simulation of electromagnetic cloaking structures. Optics Express, 2008, 16, 6717.	1.7	112
13	Discrete Coordinate Transformation for Designing All-Dielectric Flat Antennas. IEEE Transactions on Antennas and Propagation, 2010, 58, 3795-3804.	3.1	108
14	Plasmon-Exciton Coupling Using DNA Templates. Nano Letters, 2016, 16, 5962-5966.	4.5	94
15	Enhanced transmission modulation based on dielectric metasurfaces loaded with graphene. Optics Express, 2015, 23, 23787.	1.7	91
16	Ground-plane quasicloaking for free space. Physical Review A, 2009, 79, .	1.0	75
17	Flatland plasmonics and nanophotonics based on graphene and beyond. Nanophotonics, 2017, 6, 1239-1262.	2.9	71
18	Efficient Nanosecond Photoluminescence from Infrared PbS Quantum Dots Coupled to Plasmonic Nanoantennas. ACS Photonics, 2016, 3, 1741-1746.	3.2	70

#	ARTICLE	IF	CITATIONS
19	Enhanced nonlinearities using plasmonic nanoantennas. <i>Nanophotonics</i> , 2012, 1, 221-233.	2.9	64
20	Multilayered Plasmonic Covers for Comblike Scattering Response and Optical Tagging. <i>Physical Review Letters</i> , 2013, 110, 113901.	2.9	64
21	A Theoretical Model of Underground Dipole Antennas for Communications in Internet of Underground Things. <i>IEEE Transactions on Antennas and Propagation</i> , 2019, 67, 3996-4009.	3.1	64
22	Giant second-harmonic generation efficiency and ideal phase matching with a double $\hat{\mu}$ -near-zero cross-slit metamaterial. <i>Physical Review B</i> , 2014, 89, .	1.1	63
23	Enhanced third harmonic generation with graphene metasurfaces. <i>Journal of Optics (United Tj ETQq1 1 0.784314 1.0 BT /Overlock 10 TF</i>	1.0	53
24	Matching and funneling light at the plasmonic Brewster angle. <i>Physical Review B</i> , 2012, 85, .	1.1	51
25	Enhanced Second-Harmonic Generation by Metasurface Nanomixer and Nanocavity. <i>ACS Photonics</i> , 2015, 2, 1000-1006.	3.2	51
26	A Radially-Dependent Dispersive Finite-Difference Time-Domain Method for the Evaluation of Electromagnetic Cloaks. <i>IEEE Transactions on Antennas and Propagation</i> , 2009, 57, 1432-1441.	3.1	47
27	Enhanced optical bistability with film-coupled plasmonic nanocubes. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	46
28	Soft Microreactors for the Deposition of Conductive Metallic Traces on Planar, Embossed, and Curved Surfaces. <i>Advanced Functional Materials</i> , 2018, 28, 1803020.	7.8	44
29	Hybrid Graphene-Plasmonic Gratings to Achieve Enhanced Nonlinear Effects at Terahertz Frequencies. <i>Physical Review Applied</i> , 2019, 11, .	1.5	44
30	Plasmonic nanoparticles and metasurfaces to realize Fano spectra at ultraviolet wavelengths. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	43
31	Tunable nonlinear coherent perfect absorption with epsilon-near-zero plasmonic waveguides. <i>Optics Letters</i> , 2018, 43, 1806.	1.7	42
32	Layered plasmonic cloaks to tailor the optical scattering at the nanoscale. <i>Scientific Reports</i> , 2012, 2, 912.	1.6	40
33	Enhanced four-wave mixing with nonlinear plasmonic metasurfaces. <i>Scientific Reports</i> , 2016, 6, 28746.	1.6	38
34	Plasmonic nanoantennas: enhancing light-matter interactions at the nanoscale. <i>EPJ Applied Metamaterials</i> , 2015, 2, 4.	0.8	37
35	Soft Surfaces for the Reversible Control of Thin-Film Microstructure and Optical Reflectance. <i>Advanced Materials</i> , 2016, 28, 2595-2600.	11.1	37
36	Exceptional points and spectral singularities in active epsilon-near-zero plasmonic waveguides. <i>Physical Review B</i> , 2019, 99, .	1.1	37

#	ARTICLE	IF	CITATIONS
37	Tunable terahertz amplification based on photoexcited active graphene hyperbolic metamaterials [Invited]. <i>Optical Materials Express</i> , 2018, 8, 3941.	1.6	37
38	All-dielectric invisibility cloaks made of BaTiO ₃ -loaded polyurethane foam. <i>New Journal of Physics</i> , 2011, 13, 103023.	1.2	36
39	Broadband compact microstrip patch antenna design loaded by multiple split ring resonator superstrate and substrate. <i>Waves in Random and Complex Media</i> , 2017, 27, 92-102.	1.6	36
40	Optical bistability with film-coupled metasurfaces. <i>Optics Letters</i> , 2015, 40, 5638.	1.7	35
41	In Situ Electron Microscopy of Plasmon-Mediated Nanocrystal Synthesis. <i>Journal of the American Chemical Society</i> , 2017, 139, 6771-6776.	6.6	35
42	Germanium Sulfide Nano-Optics Probed by STEM-Cathodoluminescence Spectroscopy. <i>Nano Letters</i> , 2018, 18, 4576-4583.	4.5	34
43	Resonance energy transfer and quantum entanglement mediated by epsilon-near-zero and other plasmonic waveguide systems. <i>Nanoscale</i> , 2019, 11, 14635-14647.	2.8	34
44	Controlling collective spontaneous emission with plasmonic waveguides. <i>Optics Express</i> , 2016, 24, 26696.	1.7	31
45	FDTD analysis of the optical black hole. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2010, 27, 2020.	0.9	30
46	Numerical studies of the modification of photodynamic processes by film-coupled plasmonic nanoparticles. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2014, 31, 2601.	0.9	30
47	Pattern controlled and frequency tunable microstrip antenna loaded with multiple split ring resonators. <i>IET Microwaves, Antennas and Propagation</i> , 2018, 12, 390-394.	0.7	30
48	Manipulating the loss in electromagnetic cloaks for perfect wave absorption. <i>Optics Express</i> , 2009, 17, 8467.	1.7	29
49	DNA-Mediated Self-Assembly of Plasmonic Antennas with a Single Quantum Dot in the Hot Spot. <i>Small</i> , 2019, 15, e1804418.	5.2	29
50	Taming the thermal emissivity of metals: A metamaterial approach. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	28
51	Temporal soliton excitation in an ϵ -near-zero plasmonic metamaterial. <i>Optics Letters</i> , 2014, 39, 5566.	1.7	28
52	Tunable Subnanometer Gap Plasmonic Metasurfaces. <i>ACS Photonics</i> , 2018, 5, 1012-1018.	3.2	28
53	Nonreciprocal Transmission in Nonlinear PT-Symmetric Metamaterials Using Epsilon-Near-Zero Media Doped with Defects. <i>Advanced Optical Materials</i> , 2019, 7, 1901083.	3.6	28
54	Tunable and broadband coherent perfect absorption by ultrathin black phosphorus metasurfaces. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2019, 36, 2962.	0.9	28

#	ARTICLE	IF	CITATIONS
55	Comparison of frequency responses of cloaking devices under nonmonochromatic illumination. <i>Physical Review B</i> , 2011, 84, .	1.1	27
56	Broadband Brewster transmission through 2D metallic gratings. <i>Journal of Applied Physics</i> , 2012, 112, .	1.1	27
57	Graded metascreens to enable a new degree of nanoscale light management. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2015, 373, 20140351.	1.6	27
58	Broadband Enhanced Chirality with Tunable Response in Hybrid Plasmonic Helical Metamaterials. <i>Advanced Functional Materials</i> , 2021, 31, 2010329.	7.8	26
59	Optoelectronics and Nanophotonics of Vapor-grown Liquid-like Solid Grown GaSe van der Waals Nanoribbons. <i>Nano Letters</i> , 2021, 21, 4335-4342.	4.5	25
60	Self-Induced Passive Nonreciprocal Transmission by Nonlinear Bifacial Dielectric Metasurfaces. <i>Physical Review Applied</i> , 2020, 13, .	1.5	25
61	Enhanced bandwidth and gain of compact microstrip antennas loaded with multiple corrugated split ring resonators. <i>Journal of Electromagnetic Waves and Applications</i> , 2016, 30, 945-961.	1.0	24
62	Thermal emission from a metamaterial wire medium slab. <i>Optics Express</i> , 2012, 20, 9784.	1.7	21
63	Optical Antennas: Controlling Electromagnetic Scattering, Radiation, and Emission at the Nanoscale. <i>IEEE Antennas and Propagation Magazine</i> , 2017, 59, 43-61.	1.2	21
64	Efficient single-photon pair generation by spontaneous parametric down-conversion in nonlinear plasmonic metasurfaces. <i>Nanoscale</i> , 2021, 13, 19903-19914.	2.8	20
65	Dispersive cylindrical cloaks under nonmonochromatic illumination. <i>Physical Review E</i> , 2010, 81, 016611.	0.8	19
66	Graphene-based directive optical leaky wave antenna. <i>Microwave and Optical Technology Letters</i> , 2019, 61, 153-157.	0.9	19
67	Cathodoluminescence of Ultrathin Twisted Ge x Sn x S van der Waals Nanoribbon Waveguides. <i>Advanced Materials</i> , 2021, 33, 2006649.	11.1	17
68	Broadband Field Enhancement and Giant Nonlinear Effects in Terminated Unidirectional Plasmonic Waveguides. <i>Physical Review Applied</i> , 2020, 14, .	1.5	16
69	A broadband simplified free space cloak realized by nonmagnetic dielectric cylinders. <i>Frontiers of Physics in China</i> , 2010, 5, 319-323.	1.0	15
70	Small mode volume plasmonic film-coupled nanostar resonators. <i>Nanoscale Advances</i> , 2020, 2, 2397-2403.	2.2	15
71	Mechanically tunable radiative cooling for adaptive thermal control. <i>Applied Thermal Engineering</i> , 2022, 211, 118527.	3.0	14
72	Rational Synthesis of Large-Area Periodic Chemical Gradients for the Manipulation of Liquid Droplets and Gas Bubbles. <i>Advanced Functional Materials</i> , 2018, 28, 1705564.	7.8	13

#	ARTICLE	IF	CITATIONS
73	Tunable plasmonic resonances in Si-Au slanted columnar heterostructure thin films. Scientific Reports, 2019, 9, 71.	1.6	12
74	Near-unity broadband omnidirectional emissivity via femtosecond laser surface processing. Communications Materials, 2021, 2, .	2.9	12
75	Recent Advances in Terahertz Photonic Technologies Based on Graphene and Their Applications. Advanced Photonics Research, 2021, 2, 2000168.	1.7	12
76	Tunable SERS Enhancement via Sub-nanometer Gap Metasurfaces. ACS Applied Materials & Interfaces, 2022, 14, 15541-15548.	4.0	12
77	Unraveling the temperature dynamics and hot electron generation in tunable gap-plasmon metasurface absorbers. Nanophotonics, 2022, 11, 4037-4052.	2.9	12
78	Plasmonic Effects on the Growth of Ag Nanocrystals in Solution. Langmuir, 2020, 36, 2044-2051.	1.6	11
79	Enhanced Nonlinear Effects in Metamaterials and Plasmonics. Advanced Electromagnetics, 2012, 1, 46.	0.7	11
80	Near-field imaging of plasmonic nanopatch antennas with integrated semiconductor quantum dots. APL Photonics, 2021, 6, .	3.0	10
81	Tunable Plasmonic and Hyperbolic Metamaterials Based on Enhanced Nonlinear Response. International Journal of Antennas and Propagation, 2014, 2014, 1-11.	0.7	9
82	Tunable and broadband coherent perfect absorbers with nonlinear and amplification performance based on asymmetric bifacial graphene metasurfaces. Journal of Optics (United Kingdom), 2020, 22, 084003.	1.0	9
83	Nonlinear Strong Coupling by Second-Harmonic Generation Enhancement in Plasmonic Nanopatch Antennas. Advanced Optical Materials, 2022, 10, .	3.6	9
84	Plasmonic Brewster transmission in photonic gratings and crystals. , 2012, , .		8
85	Design of optical leaky wave antenna with circular and diamond S perturbations for enhancing its performance. Microwave and Optical Technology Letters, 2018, 60, 1395-1398.	0.9	8
86	Plasmonic Optical Nanoantennas. Handbook of Surface Science, 2014, 4, 109-136.	0.3	7
87	Multiqubit entanglement and quantum phase gates with epsilon-near-zero plasmonic waveguides. Applied Physics Letters, 2021, 119, .	1.5	7
88	Bandwidth evaluation of dispersive transformation electromagnetics based devices. Applied Physics A: Materials Science and Processing, 2011, 103, 715-719.	1.1	6
89	Nonlinear graphene metasurfaces with advanced electromagnetic functionalities. , 2018, , .		5
90	Light and matter interactions: Recent advances in materials, theory, fabrication, and characterization. APL Materials, 2022, 10, .	2.2	4

#	ARTICLE	IF	CITATIONS
91	Editorial to the topical issue "Advanced Metamaterials in Microwaves, Optics and Mechanics" EPJ Applied Metamaterials, 2015, 2, 1.	0.8	3
92	Graphene-based terahertz polarization converters. , 2017, , .		2
93	Plasmonic Waveguides: Enhancing Quantum Electrodynamical Phenomena at Nanoscale. IEEE Antennas and Propagation Magazine, 2021, , 2-14.	1.2	2
94	Epsilon-near-zero plasmonic waveguides to enhance nonlinear coherent light-matter interactions. , 2018, , .		2
95	Plasmon-assisted random lasing from a single-mode fiber tip. Optics Express, 2020, 28, 16417.	1.7	2
96	Dispersive Finite-Difference Time-Domain simulation of electromagnetic cloaking devices. , 2008, , .		1
97	Finite-difference time-domain simulations of approximate ground-plane cloaks. , 2009, , .		1
98	Properties and applications of periodic dielectric particles as tunable-index materials. , 2009, , .		1
99	Study of an optical nanolens with the parallel finite difference time domain technique. Radio Science, 2011, 46, .	0.8	1
100	Experimental verification of carpet cloak realized with dielectric cylinders. , 2011, , .		1
101	MIMO optical wireless at the nanoscale. , 2015, , .		1
102	Nonlinear graphene metasurface to enhance third harmonic generation at terahertz frequencies. , 2017, , .		1
103	Broadband and high gain multiband patch antenna designs using corrugated split ring resonators. , 2017, , .		1
104	PT-symmetric epsilon-near-zero plasmonic waveguides. , 2017, , .		1
105	Helical Nanostructures: Broadband Enhanced Chirality with Tunable Response in Hybrid Plasmonic Helical Metamaterials (Adv. Funct. Mater. 20/2021). Advanced Functional Materials, 2021, 31, 2170143.	7.8	1
106	Nonlinear and Amplification Response with Asymmetric Graphene-based Coherent Perfect Absorbers. , 2020, , .		1
107	Tunable nonlinear and active THz devices based on hybrid graphene metasurfaces. , 2019, , .		1
108	Dispersive finite-difference time-domain simulation of electromagnetic cloaking structures. , 2008, , .		0

#	ARTICLE	IF	CITATIONS
109	Examining the limitations of ideal cylindrical cloaks through dispersive finite-difference time-domain simulations. , 2009, , .		0
110	Characterization of microwave absorber based on transformation electromagnetics. , 2009, , .		0
111	Parallel FDTD modeling of metallic nanolens. , 2010, , .		0
112	Flat devices design for antenna systems using coordinate transformation. , 2010, , .		0
113	Discrete transformation electromagnetics and its applications in antenna design. , 2010, , .		0
114	Enhanced nonlinear effects in metamaterials and plasmonic materials. , 2012, , .		0
115	Plasmonic Composite Nanoparticles to Engineer the Optical Scattering Spectra. , 2012, , .		0
116	Ultra-broadband absorption in metallic gratings at the 'plasmonic Brewster angle', , 2013, , .		0
117	Nonlinear Optical Effects in Epsilon-Near-Zero Plasmonic Waveguides and Metamaterials. , 2013, , .		0
118	Temporal soliton propagation and second harmonic generation in epsilon-near-zero plasmonic waveguides. , 2013, , .		0
119	Nonlinear and active hyperbolic metamaterials. , 2013, , .		0
120	FDTD Modelling of Transformation Electromagnetics Based Devices. , 2014, , 487-515.		0
121	Directional plasmonic nanoantennas to enhance the purcell effect. , 2015, , .		0
122	Plasmonic Nanopatch Antennas for Large Purcell Enhancement. , 2015, , .		0
123	Quantum superradiant and subradiant modes in plasmonic nanochannels. , 2016, , .		0
124	Optical modulation with tunable hybrid metasurfaces. , 2017, , .		0
125	Editorial of the Special Issue: 'Artificial materials for advanced applications in electromagnetics and mechanics' EPJ Applied Metamaterials, 2017, 4, E1.	0.8	0
126	Polarization-Independent and Broadband THz Coherent Perfect Absorber based on Black Phosphorus Bifacial Metasurfaces. , 2019, , .		0

#	ARTICLE	IF	CITATIONS
127	Slow light at the nanoscale based on active epsilon-near-zero plasmonic waveguides. , 2019, , .		0
128	Finite-Difference Time-Domain Modeling of Electromagnetic Cloaks. , 2010, , 115-153.		0
129	Ultra-Broadband Matching and Funneling of Light at the Plasmonic Brewster-angle. , 2012, , .		0
130	Nonlinear waves in hyperbolic metamaterials: focus on solitons and rogues. , 2018, , .		0
131	Robust Self-Induced Nonreciprocal Transmission in Nonlinear PT-Symmetric Epsilon-Near-Zero Metamaterials. , 2020, , .		0