

# Andrea Di Falco

## List of Publications by Year in descending order

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Version: 2024-02-01

84  
papers

2,409  
citations

236612

25  
h-index

205818

48  
g-index

84  
all docs

84  
docs citations

84  
times ranked

3246  
citing authors

#	ARTICLE	IF	CITATIONS
1	Red-Shifted Excitation and Two-Photon Pumping of Biointegrated GaInP/AlGaInP Quantum Well Microlasers. ACS Photonics, 2022, 9, 952-960.	3.2	6
2	Two-tier manipulation of holographic information. Optics Express, 2022, 30, 19145.	1.7	12
3	Effective permittivity of co-evaporated metal-organic mixed films. Journal of Applied Physics, 2021, 129, .	1.1	3
4	All-optical manipulation of photonic membranes. Optics Express, 2021, 29, 14260.	1.7	6
5	Optical Metasurfaces Based on Epsilon-Near-Zero Materials: Towards Low Power Nonlinear Optics. , 2020, , .		0
6	Low power nonlinear optical effects in epsilon-near-zero metasurfaces. , 2020, , .		0
7	Planar Semiconductor Membranes with Brightness Enhanced Embedded Quantum Dots via Electron Beam Induced Deposition of 3D Nanostructures: Implications for Solid State Lighting. ACS Applied Nano Materials, 2020, 3, 12401-12407.	2.4	1
8	Photonics based perfect secrecy cryptography: Toward fully classical implementations. Applied Physics Letters, 2020, 116, .	1.5	4
9	NIST-certified secure key generation via deep learning of physical unclonable functions in silica aerogels. Nanophotonics, 2020, 10, 457-464.	2.9	11
10	Perturbation of Transmission Matrices in Nonlinear Random Media. Annalen Der Physik, 2019, 531, 1900091.	0.9	9
11	Flexible patches for mm-wave holography. Applied Physics Letters, 2019, 115, 021104.	1.5	21
12	Direct Measurement of Nonlinear Transmission Matrices of Random Scattering Media. , 2019, , .		0
13	Conformable optical coatings with epsilon near zero response. APL Photonics, 2019, 4, .	3.0	7
14	Holography Using Curved Metasurfaces. Photonics, 2019, 6, 8.	0.9	12
15	Patterning Multicolor Hybrid Perovskite Films <i>via</i> Top-Down Lithography. ACS Nano, 2019, 13, 3823-3829.	7.3	95
16	All Optical Manipulation of Photonic Metasurfaces in Microfluidic Environments. , 2019, , .		0
17	Perfect secrecy cryptography via mixing of chaotic waves in irreversible time-varying silicon chips. Nature Communications, 2019, 10, 5827.	5.8	26
18	High-efficiency and ultrabroadband flexible absorbers based on transversely symmetrical multi-layer structures. AIP Advances, 2019, 9, .	0.6	16

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19	Nonlinear optical memory effect. Optics Letters, 2019, 44, 4841.	1.7	5
20	Surface Topology Specific Metasurface Holograms. ACS Photonics, 2018, 5, 1762-1766.	3.2	48
21	Non-obstructive intracellular nanolasers. Nature Communications, 2018, 9, 4817.	5.8	75
22	Photonic trimming of quantum emitters via direct fabrication of metallic nanostructures. APL Photonics, 2018, 3, 071301.	3.0	2
23	Enhanced asymmetric transmission in hyperbolic epsilon-near-zero slabs. Journal of Optics (United Kingdom), 2018, 1, 1784314.	1.0	1
24	Flexible Nanowire Cluster as a Wearable Colorimetric Humidity Sensor. Small, 2017, 13, 1700109.	5.2	46
25	Conformable Holographic Metasurfaces. Scientific Reports, 2017, 7, 4520.	1.6	34
26	Persistence and Lifelong Fidelity of Phase Singularities in Optical Random Waves. Physical Review Letters, 2017, 119, 203903.	2.9	15
27	Ultrafast all-optical order-to-chaos transition in silicon photonic crystal chips. Laser and Photonics Reviews, 2016, 10, 688-695.	4.4	5
28	Enhanced nonlinear effects in pulse propagation through epsilon-near-zero media. Laser and Photonics Reviews, 2016, 10, 517-525.	4.4	53
29	Optically induced metal-to-dielectric transition in Epsilon-Near-Zero metamaterials. Scientific Reports, 2016, 6, 27700.	1.6	39
30	Optothermal nonlinearity of silica aerogel. Applied Physics Letters, 2016, 109, 041104.	1.5	6
31	Spatial Distribution of Phase Singularities in Optical Random Vector Waves. Physical Review Letters, 2016, 117, 093901.	2.9	25
32	Enhanced Nonlinear Refractive Index in $\mu$ -Near-Zero Materials. Physical Review Letters, 2016, 116, 233901.	2.9	348
33	Electrodeposition of gold templated by patterned thiol monolayers. Applied Surface Science, 2016, 373, 51-60.	3.1	21
34	Triggering extreme events at the nanoscale in photonic seas. Nature Physics, 2015, 11, 358-363.	6.5	99
35	One-Dimensional Chirality: Strong Optical Activity in Epsilon-Near-Zero Metamaterials. Physical Review Letters, 2015, 115, 057401.	2.9	50
36	Flexible metamaterials for advanced photonics applications. , 2014, , .		1

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37	Optical shock waves in silica aerogel. Optics Express, 2014, 22, 1667.	1.7	21
38	Dicke Phase Transition with Multiple Superradiant States in Quantum Chaotic Resonators. Physical Review X, 2014, 4, .	2.8	15
39	SERS sensing of cancer biomarkers. , 2014, , .		1
40	Nanoplasmonic Filters for Hollow Core Photonic Crystal Fibers. ACS Photonics, 2014, 1, 985-989.	3.2	23
41	Reproducible Surface-Enhanced Raman Quantification of Biomarkers in Multicomponent Mixtures. ACS Nano, 2014, 8, 2575-2583.	7.3	52
42	Contra-directional coupling into slotted photonic crystals for spectrometric applications. Optics Letters, 2014, 39, 4345.	1.7	6
43	Gravitational parameter estimation in a waveguide. Physical Review D, 2014, 90, .	1.6	10
44	Random super-prism wavelength meter. Optics Letters, 2014, 39, 96.	1.7	53
45	Twisted by DNA. Nature Materials, 2014, 13, 846-848.	13.3	8
46	Slotted Photonic Crystal Sensors. Sensors, 2013, 13, 3675-3710.	2.1	83
47	Enhanced energy storage in chaotic optical resonators. Nature Photonics, 2013, 7, 473-478.	15.6	77
48	A mechanically flexible free standing optical filter. , 2013, , .		0
49	Rogue waves generated through quantum chaos. , 2013, , .		0
50	Optical guided mode resonance filter on a flexible substrate. Optics Express, 2013, 21, 1002.	1.7	35
51	Lifetime statistics of quantum chaos studied by a multiscale analysis. Applied Physics Letters, 2012, 100, .	1.5	23
52	Propagation Losses of Slotted Photonic Crystal Waveguides. IEEE Photonics Journal, 2012, 4, 1536-1541.	1.0	22
53	Bidirectional Optical Sorting of Gold Nanoparticles. Nano Letters, 2012, 12, 1923-1927.	4.5	124
54	Route toward perfect imaging in Silicon-on-Insulator platform. , 2011, , .		0

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55	Luneburg lens in silicon photonics. Optics Express, 2011, 19, 5156.	1.7	101
56	High Efficiency Interface for Coupling Into Slotted Photonic Crystal Waveguides. IEEE Photonics Journal, 2011, 3, 203-208.	1.0	27
57	Slotted photonic crystal cavities with integrated microfluidics for biosensing applications. Biosensors and Bioelectronics, 2011, 27, 101-105.	5.3	174
58	Valve controlled fluorescence detection system for remote sensing applications. Microfluidics and Nanofluidics, 2011, 11, 529-536.	1.0	6
59	Optical metasurfaces with robust angular response on flexible substrates. Applied Physics Letters, 2011, 99, .	1.5	47
60	Gain assisted nanocomposite multilayers with near zero permittivity modulus at visible frequencies. Applied Physics Letters, 2011, 99, .	1.5	36
61	Slotted photonic crystals for sensing applications. , 2011, , .		0
62	Flexible metamaterials at visible wavelengths. New Journal of Physics, 2010, 12, 113006.	1.2	71
63	Low loss dispersion engineered photonic crystal waveguides for optical delay lines. , 2009, , .		6
64	Optical beam-steering for wireless sensor networks. , 2009, , .		1
65	Electro-optic modulation in hybrid SOI and polymer slotted resonant photonic crystal heterostructures. , 2009, , .		0
66	Integrated polymer microprisms for free space optical beam deflecting. Optics Express, 2009, 17, 3424.	1.7	9
67	Electro-optic modulation in slotted resonant photonic crystal heterostructures. Applied Physics Letters, 2009, 94, .	1.5	82
68	Tunneling Mediated by 2D+1 Conical Waves in a 1D Lattice. Physical Review Letters, 2008, 101, 013601.	2.9	2
69	Self-transparency mediated by X-waves in Bragg gratings. , 2007, , .		0
70	Tunable wavelength-selective add-drop in liquid crystals on a silicon microresonator. Optics Communications, 2007, 279, 210-213.	1.0	23
71	Impedance matching in photonic crystal microcavities for second-harmonic generation. Optics Letters, 2006, 31, 250.	1.7	24
72	Quadratic phase matching in slot waveguides. Optics Letters, 2006, 31, 3146.	1.7	23

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73	Transient-mode excitation, terahertz generation and wavelength shifting in a photonic band gap. Applied Physics B: Lasers and Optics, 2005, 81, 415-420.	1.1	2
74	Terahertz pulse generation via optical rectification in photonic crystal microcavities. Optics Letters, 2005, 30, 1174.	1.7	20
75	Bi-colour spatial solitons in linearly uncoupled planar waveguides. Journal of Optics B: Quantum and Semiclassical Optics, 2004, 6, S217-S222.	1.4	0
76	Wavelength shifting in photonic bandgap microcavities with isotropic media. Applied Physics Letters, 2004, 85, 4585-4587.	1.5	7
77	Photonic crystal wires for optical parametric oscillators in isotropic media. Applied Physics B: Lasers and Optics, 2004, 79, 9-13.	1.1	7
78	Parametric Oscillations in Photonic Crystal Slabs 3-D Time-Domain Analysis. IEEE Photonics Technology Letters, 2004, 16, 1495-1497.	1.3	7
79	Optical parametric oscillations in isotropic photonic crystals. Optics Express, 2004, 12, 823.	1.7	32
80	Three-Dimensional Superprism Effect in Photonic-Crystal Slabs. Journal of Lightwave Technology, 2004, 22, 1748-1753.	2.7	8
81	Controlled transmission in the forbidden photonic bandgap via transient nonlinear states. Optics Letters, 2004, 29, 2902.	1.7	7
82	Second harmonic generation in coupled LiNbO3 waveguides by reverse-proton exchange. IEEE Photonics Technology Letters, 2003, 15, 443-445.	1.3	7
83	Spatial optical solitons in nonlinearly coupled lithium niobate waveguides. IEEE Photonics Technology Letters, 2003, 15, 537-539.	1.3	6
84	Spatial optical simultons in nonlinearly coupled planar waveguides. Optics Letters, 2003, 28, 1031.	1.7	12