

Andriy N Shevchenko

List of Publications by Year in descending order

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85
papers

1,710
citations

430874

18
h-index

289244

40
g-index

85
all docs

85
docs citations

85
times ranked

1674
citing authors

#	ARTICLE	IF	CITATIONS
1	Electromagnetic multipole theory for optical nanomaterials. <i>New Journal of Physics</i> , 2012, 14, 093033.	2.9	299
2	Azopolymer-based micro- and nanopatterning for photonic applications. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2014, 52, 163-182.	2.1	256
3	Degree of polarization for optical near fields. <i>Physical Review E</i> , 2002, 66, 016615.	2.1	242
4	Optical Interference Lithography Using Azobenzene-Functionalized Polymers for Micro- and Nanopatterning of Silicon. <i>Advanced Materials</i> , 2011, 23, 4174-4177.	21.0	103
5	Local polarization of tightly focused unpolarized light. <i>Nature Photonics</i> , 2007, 1, 228-231.	31.4	80
6	Polarization time of unpolarized light. <i>Optica</i> , 2017, 4, 64.	9.3	49
7	Polarization time and length for random optical beams. <i>Physical Review A</i> , 2008, 78, .	2.5	43
8	Creation of a hollow laser beam using self-phase modulation in a nematic liquid crystal. <i>Optics Communications</i> , 2004, 232, 77-82.	2.1	39
9	Evidence of Weak Halogen Bonding: New Insights on Itraconazole and its Succinic Acid Cocrystal. <i>Crystal Growth and Design</i> , 2013, 13, 346-351.	3.0	31
10	Electric dipole-free interaction of visible light with pairs of subwavelength-size silver particles. <i>Physical Review B</i> , 2012, 86, .	3.2	29
11	Evanescent-wave pumped cylindrical microcavity laser with intense output radiation. <i>Optics Communications</i> , 2005, 245, 349-353.	2.1	28
12	Characterization of polarization fluctuations in random electromagnetic beams. <i>New Journal of Physics</i> , 2009, 11, 073004.	2.9	28
13	Large-area nanostructured substrates for surface enhanced Raman spectroscopy. <i>Applied Physics Letters</i> , 2012, 100, .	3.3	28
14	Gas refractometry using a hollow-core photonic bandgap fiber in a Mach-Zehnder-type interferometer. <i>Applied Physics Letters</i> , 2012, 100, .	3.3	27
15	Microscopic derivation of electromagnetic force density in magnetic dielectric media. <i>New Journal of Physics</i> , 2010, 12, 053020.	2.9	25
16	Polarization dynamics and polarization time of random three-dimensional electromagnetic fields. <i>Physical Review A</i> , 2010, 82, .	2.5	22
17	Theoretical description of bifacial optical nanomaterials. <i>Optics Express</i> , 2013, 21, 23471.	3.4	20
18	Bifacial Metasurface with Quadrupole Optical Response. <i>Physical Review Applied</i> , 2015, 4, .	3.8	20

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19	Ultrashort coherence times in partially polarized stationary optical beams measured by two-photon absorption. <i>Optics Express</i> , 2015, 23, 31274.	3.4	17
20	High and stable photoinduced anisotropy in guest-host polymer mediated by chromophore aggregation. <i>Optics Letters</i> , 2010, 35, 1813.	3.3	16
21	Creation of a narrow Bessel-like laser beam using a nematic liquid crystal. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2006, 23, 637.	2.1	15
22	Interferometric description of optical metamaterials. <i>New Journal of Physics</i> , 2013, 15, 113044.	2.9	15
23	Geometric phase in beating of light waves. <i>New Journal of Physics</i> , 2019, 21, 083030.	2.9	15
24	Trapping atoms on a transparent permanent-magnet atom chip. <i>Physical Review A</i> , 2006, 73, .	2.5	14
25	Electromagnetic force density and energy-momentum tensor in an arbitrary continuous medium. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2011, 44, 175401.	1.5	14
26	Interaction of metamaterials with optical beams. <i>New Journal of Physics</i> , 2015, 17, 063019.	2.9	13
27	Multipole polarizability of a nanodimer in optical waves. <i>Journal of the European Optical Society-Rapid Publications</i> , 0, 8, .	1.9	11
28	Interference and polarization beating of independent arbitrarily polarized polychromatic optical waves. <i>Physical Review A</i> , 2019, 100, .	2.5	11
29	Reconfigurable atom chip on a transparent ferrite-garnet film. <i>European Physical Journal D</i> , 2005, 35, 81-85.	1.3	10
30	Photolithographic periodic patterning of gold using azobenzene-functionalized polymers. <i>Thin Solid Films</i> , 2013, 540, 162-167.	1.8	10
31	Large-area enhancement of far-field fluorescence intensity using planar nanostructures. <i>APL Photonics</i> , 2019, 4, 076101.	5.7	10
32	Spin-degenerate two-level atoms in on-resonance partially polarized light. <i>Physical Review A</i> , 2006, 73, .	2.5	9
33	Self-focusing in a nematic liquid crystal for measurements of wavefront distortions. <i>Optics Communications</i> , 2004, 232, 439-442.	2.1	8
34	Fabrication and characterization of a large-area metal nano-grid wave plate. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	8
35	Spatially dispersive functional optical metamaterials. <i>Journal of Nanophotonics</i> , 2015, 9, 093097.	1.0	8
36	Aberration-insensitive microscopy using optical field-correlation imaging. <i>APL Photonics</i> , 2019, 4, .	5.7	8

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37	Internally twisted spatially dispersive optical metamaterials. <i>Journal of Nanophotonics</i> , 2014, 8, 083074.	1.0	7
38	Spatially smooth evanescent-wave profiles in a multimode hollow optical fiber for atom guiding. <i>Optics Communications</i> , 2004, 237, 103-110.	2.1	6
39	Self-Organization-Based Fabrication of Stable Noble-Metal Nanostructures on Large-Area Dielectric Substrates. <i>Journal of Chemistry</i> , 2013, 2013, 1-10.	1.9	6
40	Optical-image transfer through a diffraction-compensating metamaterial. <i>Optics Express</i> , 2016, 24, 9806.	3.4	6
41	An optical metamaterial with simultaneously suppressed optical diffraction and surface reflection. <i>Journal of Optics (United Kingdom)</i> , 2016, 18, 035103.	2.2	6
42	Generation of light in spatially dispersive materials. <i>Physical Review A</i> , 2017, 95, .	2.5	6
43	Highly birefringent metamaterial structure as a tunable partial polarizer. <i>Optics Express</i> , 2019, 27, 27335.	3.4	6
44	Optical wave retarder based on metal-nanostripe metamaterial. <i>Optics Letters</i> , 2019, 44, 3102.	3.3	6
45	Mode Interference Effect in Optical Emission of Quantum Dots in Photonic Crystal Cavities. <i>Physical Review X</i> , 2022, 12, .	8.9	6
46	Electromagnetic force density in dissipative isotropic media. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2011, 44, 065403.	1.5	5
47	Trapping colloidal dielectric microparticles with overlapping evanescent optical waves. <i>Optics Communications</i> , 2012, 285, 4571-4578.	2.1	5
48	Optical wave parameters for spatially dispersive and anisotropic nanomaterials. <i>Optics Express</i> , 2017, 25, 8550.	3.4	5
49	Electromagnetic anapoles of a Cartesian expansion of localized electric currents. <i>Physical Review Research</i> , 2020, 2, .	3.6	5
50	Multifrequency Bessel beams with adjustable group velocity and longitudinal acceleration in free space. <i>New Journal of Physics</i> , 2022, 24, 033042.	2.9	5
51	Single-longitudinal-mode selection in a nanosecond-pulsed dye laser. <i>Applied Physics B: Lasers and Optics</i> , 2002, 74, 349-354.	2.2	4
52	Microscopic electro-optical atom trap on an evanescent-wave mirror. <i>European Physical Journal D</i> , 2004, 28, 273-276.	1.3	4
53	All-optical reversible switching of local magnetization. <i>Applied Physics Letters</i> , 2007, 91, 041916.	3.3	4
54	Magnetic Excitations in Silver Nanocrescents at Visible and Ultraviolet Frequencies. <i>Plasmonics</i> , 2009, 4, 121-126.	3.4	4

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55	On experimental characterization of polarization fluctuation dynamics in random optical beams. Applied Optics, 2012, 51, C44.	1.8	4
56	Electromagnetic angular momentum flux tensor in a medium. European Physical Journal D, 2012, 66, 1.	1.3	4
57	Fluorescence enhancement and nonreciprocal transmission of light waves by nanomaterial interfaces. Physical Review A, 2017, 96, .	2.5	4
58	Morphology and Surface Plasmon Resonances of Silver Nanocomposite Layer-by-Layer Films. Journal of Nanoscience and Nanotechnology, 2009, 9, 3872-3876.	0.9	3
59	Method for obtaining high phase space density in a surface-mounted atom trap. Applied Physics B: Lasers and Optics, 2004, 79, 367-370.	2.2	2
60	Internally twisted non-centrosymmetric optical metamaterials. , 2014, , .		2
61	Theoretical description and design of nanomaterial slab waveguides: application to compensation of optical diffraction. Optics Express, 2018, 26, 9134.	3.4	2
62	Measurement of intensity and polarization beatings in the interference of independent optical fields. Physical Review Research, 2020, 2, .	3.6	2
63	Interferometric imaging of reflective micro-objects in the presence of strong aberrations. Optics Express, 2020, 28, 1817.	3.4	2
64	Temporal phase-contrast ghost imaging. Physical Review A, 2020, 102, .	2.5	2
65	Heating and phase-space decompression of evanescent-wave cooled atoms by multiple photon reabsorption. Optics Express, 2003, 11, 1827.	3.4	1
66	Thermodynamics of a multicomponent-atom sample in a tightly compressed atom trap. Physical Review A, 2004, 70, .	2.5	1
67	Laser Beam Shaping using Self-Focusing in a Nematic Liquid Crystal. Molecular Crystals and Liquid Crystals, 2006, 454, 217/[619]-224/[626].	0.9	1
68	E<inf></inf>lectromagnetic force density and energy-momentum tensor in medium. , 2011, , .		1
69	Functional optical metamaterials employing spatial dispersion and absorption. , 2014, , .		1
70	Near-field spatial coherence of structured incoherent optical sources. Physical Review A, 2020, 102, .	2.5	1
71	Microscopic atom traps on an evanescent-wave mirror. , 2003, , .		0
72	An evanescent-wave pumped microcavity laser with intense output radiation. , 0, , .		0

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73	Surface Plasmon Resonances in Diffusive Reflection Spectra of Multilayered Silver Nanocomposite Films. , 2008, , .		0
74	Polarization time. Journal of Physics: Conference Series, 2008, 139, 012011.	0.4	0
75	Large-Area Arrays of Pillar-Based Metal Nanostructures. , 2009, , .		0
76	Design and fabrication of plasmonic nanostructures for spectroscopic applications. , 2010, , .		0
77	Polarization dynamics of random 3D light fields. , 2010, , .		0
78	Levitation of colloidal particles on an evanescent optical wave. , 2010, , .		0
79	Design and characterization of metamaterial building blocks using electric current multipoles. , 2013, , .		0
80	Propagation of optical fields through a three-dimensional diffraction-compensating metamaterial. , 2016, , .		0
81	Optical emission and light propagation in spatially dispersive metamaterial structures. , 2018, , .		0
82	Optical Writing and Erasing of Magnetic Domain Patterns on a Ferrite-Garnet Film. Journal of the Magnetism Society of Japan, 2008, 32, 117-119.	0.9	0
83	Ultrafast Polarization-State Dynamics of Light Beams Measured by Two-Photon Absorption. , 2016, , .		0
84	All-optical modulation and detection using a gain medium in a pulse shaper. Optics Express, 2020, 28, 35869.	3.4	0
85	Prism-based approach to create intensity-interferometric non-diffractive cw light sheets. Optics Express, 2022, 30, 24716.	3.4	0