

Vladimir Kleiner

List of Publications by Year in descending order

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28
papers

3,747
citations

393982

19
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676716

22
g-index

28
all docs

28
docs citations

28
times ranked

3086
citing authors

#	ARTICLE	IF	CITATIONS
1	Space-variant Pancharatnamâ€™Berry phase optical elements with computer-generated subwavelength gratings. Optics Letters, 2002, 27, 1141.	1.7	638
2	Geometrodynamics of spinning light. Nature Photonics, 2008, 2, 748-753.	15.6	500
3	Spin-Optical Metamaterial Route to Spin-Controlled Photonics. Science, 2013, 340, 724-726.	6.0	425
4	Photonic spin-controlled multifunctional shared-aperture antenna array. Science, 2016, 352, 1202-1206.	6.0	408
5	Polarization dependent focusing lens by use of quantized Pancharatnamâ€™Berry phase diffractive optics. Applied Physics Letters, 2003, 82, 328-330.	1.5	388
6	Pancharatnamâ€™Berry phase in space-variant polarization-state manipulations with subwavelength gratings. Optics Letters, 2001, 26, 1424.	1.7	341
7	Quantum entanglement of the spin and orbital angular momentum of photons using metamaterials. Science, 2018, 361, 1101-1104.	6.0	294
8	Multifunctional interleaved geometric-phase dielectric metasurfaces. Light: Science and Applications, 2017, 6, e17027-e17027.	7.7	174
9	Formation of radially and azimuthally polarized light using space-variant subwavelength metal stripe gratings. Applied Physics Letters, 2001, 79, 1587-1589.	1.5	149
10	Geometric Doppler Effect: Spin-Split Dispersion of Thermal Radiation. Physical Review Letters, 2010, 105, 136402.	2.9	67
11	Space-variant polarization manipulation of a thermal emission by a SiO ₂ subwavelength grating supporting surface phonon-polaritons. Applied Physics Letters, 2005, 86, 191102.	1.5	59
12	Disorder-induced optical transition from spin Hall to random Rashba effect. Science, 2017, 358, 1411-1415.	6.0	56
13	Photonic Rashba effect from quantum emitters mediated by a Berry-phase defective photonic crystal. Nature Nanotechnology, 2020, 15, 927-933.	15.6	40
14	Slow surface phonon polaritons for sensing in the midinfrared spectrum. Applied Physics Letters, 2009, 94, .	1.5	38
15	Probing nanoscale fluctuation of ferromagnetic meta-atoms with a stochastic photonic spin Hall effect. Nature Nanotechnology, 2020, 15, 450-456.	15.6	38
16	Topologically Controlled Intracavity Laser Modes Based on Pancharatnam-Berry Phase. ACS Photonics, 2018, 5, 1817-1821.	3.2	35
17	Optical Mode Control by Geometric Phase in Quasicrystal Metasurface. Physical Review Letters, 2015, 115, 205501.	2.9	26
18	Spin-controlled plasmonics via optical Rashba effect. Applied Physics Letters, 2013, 103, 211114.	1.5	22

#	ARTICLE	IF	CITATIONS
19	Nondiffracting periodically space-variant polarization beams with subwavelength gratings. Applied Physics Letters, 2002, 80, 3685-3687.	1.5	21
20	Photonic Topological Spin Hall Effect Mediated by Vortex Pairs. Physical Review Letters, 2019, 123, 266101.	2.9	14
21	Bandgap structure of thermally excited surface phonon polaritons. Applied Physics Letters, 2010, 96, 071911.	1.5	7
22	Order and Disorder Embedded in a Spectrally Interleaved Metasurface. ACS Photonics, 2018, 5, 4764-4768.	3.2	5
23	Coherent control of thermal emission from SiC due to coupled resonant cavity structure. , 2008, , .		1
24	Inhomogeneous anisotropic subwavelength structures for the excitation of single hollow waveguide modes. , 2008, , .		1
25	Enhanced coherent thermal emission of coupled resonant cavities due to surface phonon-polariton excitation. , 2007, , .		0
26	Spin-controlled multifunctional metasurfaces. , 2017, , .		0
27	Intra-cavity spin controlled geometric phase metasurface. , 2017, , .		0
28	Random Topological Defects-Induced Spin-Enabled Photonic Transport by Metasurfaces. , 2019, , .		0