

Kayn A Forbes

List of Publications by Year in descending order

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Version: 2024-02-01

34
papers

602
citations

623734

14
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610901

24
g-index

34
all docs

34
docs citations

34
times ranked

402
citing authors

#	ARTICLE	IF	CITATIONS
1	Optical helicity of unpolarized light. <i>Physical Review A</i> , 2022, 105, .	2.5	16
2	Two-photon absorption with tightly focused optical vortices. , 2022, , .		0
3	Optical helicity, chirality, and spin of 3D-structured Laguerre-Gaussian optical vortices. , 2022, , .		0
4	Enantioselective optical gradient forces using 3D structured vortex light. <i>Optics Communications</i> , 2022, 515, 128197.	2.1	12
5	Orbital angular momentum of twisted light: chirality and optical activity. <i>JPhys Photonics</i> , 2021, 3, 022007.	4.6	59
6	Relevance of longitudinal fields of paraxial optical vortices. <i>Journal of Optics (United Kingdom)</i> , 2021, 23, 075401.	2.2	20
7	Optical vortex dichroism in chiral particles. <i>Physical Review A</i> , 2021, 103, .	2.5	21
8	Measures of helicity and chirality of optical vortex beams. <i>Journal of Optics (United Kingdom)</i> , 2021, 23, 115401.	2.2	22
9	Optical binding of nanoparticles. <i>Nanophotonics</i> , 2020, 9, 1-17.	6.0	39
10	Quantum field representation of photon-molecule interactions. <i>European Journal of Physics</i> , 2020, 41, 025406.	0.6	5
11	Nonlinear chiral molecular photonics using twisted light: hyper-Rayleigh and hyper-Raman optical activity. <i>Journal of Optics (United Kingdom)</i> , 2020, 22, 095401.	2.2	19
12	Quantum electrodynamics in modern optics and photonics: tutorial. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2020, 37, 1153.	2.1	35
13	Influence of chirality on fluorescence and resonance energy transfer. <i>Journal of Chemical Physics</i> , 2019, 151, 034305.	3.0	14
14	Raman Optical Activity Using Twisted Photons. <i>Physical Review Letters</i> , 2019, 122, 103201.	7.8	38
15	Spin-orbit interactions and chiroptical effects engaging orbital angular momentum of twisted light in chiral and achiral media. <i>Physical Review A</i> , 2019, 99, .	2.5	36
16	Off-Resonance Control and All-Optical Switching: Expanded Dimensions in Nonlinear Optics. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 4252.	2.5	12
17	Kramers-Heisenberg dispersion formula for scattering of twisted light. <i>Physical Review A</i> , 2019, 100, .	2.5	13
18	Enhanced optical activity using the orbital angular momentum of structured light. <i>Physical Review Research</i> , 2019, 1, .	3.6	28

#	ARTICLE	IF	CITATIONS
19	Optical spin-orbit interactions in molecular scattering of twisted light. , 2019, , .		0
20	Role of magnetic and diamagnetic interactions in molecular optics and scattering. Physical Review A, 2018, 97, .	2.5	10
21	Quantum features in the orthogonality of optical modes for structured and plane-wave light. Optics Letters, 2018, 43, 3249.	3.3	7
22	Optical orbital angular momentum: twisted light and chirality. Optics Letters, 2018, 43, 435.	3.3	104
23	Chiroptical interactions between twisted light and chiral media. , 2018, , .		0
24	The angular momentum of twisted light in anisotropic media: chiroptical interactions in chiral and achiral materials. , 2018, , .		0
25	Spin-orbit coupling in vortex light: can it be revealed in fundamental electronic transitions?. , 2018, , .		0
26	Nonlocalized Generation of Correlated Photon Pairs in Degenerate Down-Conversion. Physical Review Letters, 2017, 118, 133602.	7.8	14
27	Quantum delocalization in photon-pair generation. Physical Review A, 2017, 96, .	2.5	4
28	Quantum localization issues in nonlinear frequency conversion and harmonic generation. , 2017, , .		0
29	Quantum theory for the nanoscale propagation of light through stacked thin film layers. Proceedings of SPIE, 2016, , .	0.8	0
30	Identifying diamagnetic interactions in scattering and nonlinear optics. Physical Review A, 2016, 94, .	2.5	15
31	Chirality in Optical Trapping and Optical Binding. Photonics, 2015, 2, 483-497.	2.0	29
32	Discriminatory effects in the optical binding of chiral nanoparticles. Proceedings of SPIE, 2015, , .	0.8	0
33	Chiral discrimination in optical binding. Physical Review A, 2015, 91, .	2.5	28
34	Sculpting optical energy landscapes for multi-particle nanoscale assembly. , 2014, , .		2