Kayn A Forbes

List of Publications by Year
in descending order

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34 papers	602 citations	623734 14 h-index	610901 24 g-index
34 all docs	34 docs citations	34 times ranked	402 citing authors

#	Article	IF	Citations
1	Optical orbital angular momentum: twisted light and chirality. Optics Letters, 2018, 43, 435.	3.3	104
2	Orbital angular momentum of twisted light: chirality and optical activity. JPhys Photonics, 2021, 3, 022007.	4.6	59
3	Optical binding of nanoparticles. Nanophotonics, 2020, 9, 1-17.	6.0	39
4	Raman Optical Activity Using Twisted Photons. Physical Review Letters, 2019, 122, 103201.	7.8	38
5	Spin-orbit interactions and chiroptical effects engaging orbital angular momentum of twisted light in chiral and achiral media. Physical Review A, 2019, 99, .	2.5	36
6	Quantum electrodynamics in modern optics and photonics: tutorial. Journal of the Optical Society of America B: Optical Physics, 2020, 37, 1153.	2.1	35
7	Chirality in Optical Trapping and Optical Binding. Photonics, 2015, 2, 483-497.	2.0	29
8	Chiral discrimination in optical binding. Physical Review A, 2015, 91, .	2.5	28
9	Enhanced optical activity using the orbital angular momentum of structured light. Physical Review Research, 2019, 1, .	3.6	28
10	Measures of helicity and chirality of optical vortex beams. Journal of Optics (United Kingdom), 2021, 23, 115401.	2.2	22
11	Optical vortex dichroism in chiral particles. Physical Review A, 2021, 103, .	2.5	21
12	Relevance of longitudinal fields of paraxial optical vortices. Journal of Optics (United Kingdom), 2021, 23, 075401.	2.2	20
13	Nonlinear chiral molecular photonics using twisted light: hyper-Rayleigh and hyper-Raman optical activity. Journal of Optics (United Kingdom), 2020, 22, 095401.	2.2	19
14	Optical helicity of unpolarized light. Physical Review A, 2022, 105, .	2.5	16
15	Identifying diamagnetic interactions in scattering and nonlinear optics. Physical Review A, 2016, 94, .	2.5	15
16	Nonlocalized Generation of Correlated Photon Pairs in Degenerate Down-Conversion. Physical Review Letters, 2017, 118, 133602.	7.8	14
17	Influence of chirality on fluorescence and resonance energy transfer. Journal of Chemical Physics, 2019, 151, 034305.	3.0	14
18	Kramers-Heisenberg dispersion formula for scattering of twisted light. Physical Review A, 2019, 100, .	2.5	13

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19	Off-Resonance Control and All-Optical Switching: Expanded Dimensions in Nonlinear Optics. Applied Sciences (Switzerland), 2019, 9, 4252.	2.5	12
20	Enantioselective optical gradient forces using 3D structured vortex light. Optics Communications, 2022, 515, 128197.	2.1	12
21	Role of magnetic and diamagnetic interactions in molecular optics and scattering. Physical Review A, 2018, 97, .	2.5	10
22	Quantum features in the orthogonality of optical modes for structured and plane-wave light. Optics Letters, 2018, 43, 3249.	3.3	7
23	Quantum field representation of photon-molecule interactions. European Journal of Physics, 2020, 41, 025406.	0.6	5
24	Quantum delocalization in photon-pair generation. Physical Review A, 2017, 96, .	2.5	4
25	Sculpting optical energy landscapes for multi-particle nanoscale assembly. , 2014, , .		2
26	Discriminatory effects in the optical binding of chiral nanoparticles. Proceedings of SPIE, 2015, , .	0.8	0
27	Quantum theory for the nanoscale propagation of light through stacked thin film layers. Proceedings of SPIE, 2016, , .	0.8	0
28	Quantum localization issues in nonlinear frequency conversion and harmonic generation. , 2017, , .		0
29	Chiroptical interactions between twisted light and chiral media. , 2018, , .		0
30	The angular momentum of twisted light in anisotropic media: chiroptical interactions in chiral and achiral materials. , 2018, , .		0
31	Spin-orbit coupling in vortex light: can it be revealed in fundamental electronic transitions?. , 2018, , .		0
32	Optical spin-orbit interactions in molecular scattering of twisted light. , 2019, , .		0
33	Two-photon absorption with tightly focused optical vortices. , 2022, , .		0
34	Optical helicity, chirality, and spin of 3D-structured Laguerre-Gaussian optical vortices. , 2022, , .		0