

# Shaohui Yan

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9088331/publications.pdf>

Version: 2024-02-01

34  
papers

770  
citations

471509

17  
h-index

526287

27  
g-index

34  
all docs

34  
docs citations

34  
times ranked

639  
citing authors

#	ARTICLE	IF	CITATIONS
1	Radiation forces of a highly focused radially polarized beam on spherical particles. <i>Physical Review A</i> , 2007, 76, .	2.5	86
2	Orbit-induced localized spin angular momentum in strong focusing of optical vectorial vortex beams. <i>Physical Review A</i> , 2018, 97, .	2.5	55
3	Transverse spinning of particles in highly focused vector vortex beams. <i>Physical Review A</i> , 2017, 95, .	2.5	52
4	Generation of multiple spherical spots with a radially polarized beam in a 4f focusing system. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2010, 27, 2033.	1.5	43
5	Shifting the spherical focus of a 4Pi focusing system. <i>Optics Express</i> , 2011, 19, 673.	3.4	42
6	Optical sorting of small chiral particles by tightly focused vector beams. <i>Physical Review A</i> , 2019, 99, .	2.5	42
7	Simultaneous optical trapping and imaging in the axial plane: a review of current progress. <i>Reports on Progress in Physics</i> , 2020, 83, 032401.	20.1	41
8	Generation of a double-ring perfect optical vortex by the Fourier transform of azimuthally polarized Bessel beams. <i>Optics Letters</i> , 2019, 44, 1504.	3.3	37
9	Full-color structured illumination optical sectioning microscopy. <i>Scientific Reports</i> , 2015, 5, 14513.	3.3	34
10	Single shot, three-dimensional fluorescence microscopy with a spatially rotating point spread function. <i>Biomedical Optics Express</i> , 2017, 8, 5493.	2.9	33
11	Rapid tilted-plane Gerchberg-Saxton algorithm for holographic optical tweezers. <i>Optics Express</i> , 2020, 28, 12729.	3.4	30
12	Axial resolution enhancement of light-sheet microscopy by double scanning of Bessel beam and its complementary beam. <i>Journal of Biophotonics</i> , 2019, 12, e201800094.	2.3	27
13	Double-Exposure Optical Sectioning Structured Illumination Microscopy Based on Hilbert Transform Reconstruction. <i>PLoS ONE</i> , 2015, 10, e0120892.	2.5	27
14	Generation and Conversion Dynamics of Dual Bessel Beams with a Photonic Spin-Dependent Dielectric Metasurface. <i>Physical Review Applied</i> , 2021, 15, .	3.8	26
15	Rapid Image Reconstruction of Structured Illumination Microscopy Directly in the Spatial Domain. <i>IEEE Photonics Journal</i> , 2021, 13, 1-11.	2.0	21
16	Accurate description of a radially polarized Gaussian beam. <i>Physical Review A</i> , 2008, 77, .	2.5	20
17	Virtual source for an Airy beam. <i>Optics Letters</i> , 2012, 37, 4774.	3.3	18
18	Generation of three-dimensional optical structures by dynamic holograms displayed on a twisted nematic liquid crystal display. <i>Applied Physics B: Lasers and Optics</i> , 2013, 110, 531-537.	2.2	17

#	ARTICLE	IF	CITATIONS
19	Interleaved segment correction achieves higher improvement factors in using genetic algorithm to optimize light focusing through scattering media. <i>Journal of Optics (United Kingdom)</i> , 2017, 19, 105602.	2.2	17
20	Imaging Enhancement of Light-Sheet Fluorescence Microscopy via Deep Learning. <i>IEEE Photonics Technology Letters</i> , 2019, 31, 1803-1806.	2.5	17
21	Description of a radially polarized Laguerre-Gauss beam beyond the paraxial approximation. <i>Optics Letters</i> , 2007, 32, 3367.	3.3	14
22	Optical separation and discrimination of chiral particles by vector beams with orbital angular momentum. <i>Nanoscale Advances</i> , 2021, 3, 6897-6902.	4.6	12
23	Generation of controllable chiral optical fields by vector beams. <i>Nanoscale</i> , 2020, 12, 15453-15459.	5.6	11
24	Spin momentum-dependent orbital motion. <i>New Journal of Physics</i> , 2020, 22, 053009.	2.9	9
25	Direct axial plane imaging of particle manipulation with nondiffracting Bessel beams. <i>Applied Optics</i> , 2021, 60, 2974.	1.8	9
26	Direct observation and characterization of optical guiding of microparticles by tightly focused non-diffracting beams. <i>Optics Express</i> , 2019, 27, 37975.	3.4	8
27	Three-dimensional characterization of tightly focused fields for various polarization incident beams. <i>Review of Scientific Instruments</i> , 2017, 88, 063106.	1.3	5
28	Rotating of metallic microparticles with an optimal radially polarized perfect optical vortex. <i>Journal of Optics (United Kingdom)</i> , 2022, 24, 064003.	2.2	5
29	Exact description of a cylindrically symmetrical complex-argument Laguerre-Gauss beam. <i>Optics Letters</i> , 2008, 33, 1074.	3.3	4
30	Polarization-sensitive diffractive optical elements fabricated in BR films with femtosecond laser. <i>Applied Physics B: Lasers and Optics</i> , 2014, 115, 365-369.	2.2	4
31	Separation of optical angular momentum flux. <i>Journal of Optics (United Kingdom)</i> , 2019, 21, 035606.	2.2	2
32	Threshold automatic selection hybrid phase unwrapping algorithm for digital holographic microscopy. <i>Journal of Modern Optics</i> , 2015, 62, 108-113.	1.3	1
33	Spirally rotating particles with structured beams generated by phase-shifted zone plates. <i>Applied Optics</i> , 2022, 61, 1268.	1.8	1
34	Optical trapping with cylindrical vector beams. , 2011, , .		0