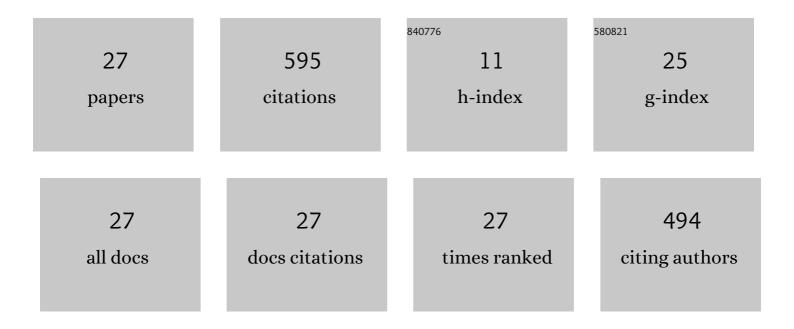
Yong Xia

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	2D Magneto-Optical Trapping of Diatomic Molecules. Physical Review Letters, 2013, 110, 143001.	7.8	323
2	Calculation of vibrational branching ratios and hyperfine structure of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msup><mml:mrow /><mml:mn>24</mml:mn></mml:mrow </mml:msup><mml:msup><mml:mrow><mml:mi>Mg</mml:mi></mml:mrow><m mathvariant="normal">F</m </mml:msup></mml:mrow>and its suitability for laser cooling and magneto-optical trapping. Physical Review A, 2016, 93, .</mml:math 	ml:mn 2.5 9 <td>mmkønn></td>	mm kø nn>
3	Magneto-optical trapping. Physical Review A, 2016, 95, . Machine learning based accurate recognition of fractional optical vortex modes in atmospheric environment. Applied Physics Letters, 2021, 119, .	3.3	23
4	Electrostatic Surface Guiding for Cold Polar Molecules: Experimental Demonstration. Physical Review Letters, 2008, 100, 043003.	7.8	22
5	Narrow-linewidth and stable-frequency light source for laser cooling of magnesium fluoride molecules. Applied Physics Express, 2015, 8, 092701.	2.4	21
6	Multistage optical Stark decelerator for a pulsed supersonic beam with a quasi-cw optical lattice. Optics Express, 2009, 17, 10706.	3.4	19
7	Determination of the normal A2Î state in MgF with application to direct laser cooling of molecules. Journal of Chemical Physics, 2019, 150, 084302.	3.0	17
8	Generation of a dark hollow beam by a nonlinear ZnSe crystal and its propagation properties in free space: Theoretical analysis. Optics Communications, 2014, 322, 179-182.	2.1	16
9	Broad Bandwidth and Highly Efficient Recognition of Optical Vortex Modes Achieved by the Neural-Network Approach. Physical Review Applied, 2020, 13, .	3.8	15
10	Three-dimensional modeling of magneto-optical trapping of MgF molecules with multilevel rate equations. Physical Review A, 2019, 99, .	2.5	14
11	A new route for laser cooling and trapping of cold molecules: Intensity-gradient cooling of MgF molecules using localized hollow beams. New Journal of Physics, 2020, 22, 033003.	2.9	12
12	Rotational relaxation of fluoromethane molecules in low-temperature collisions with buffer-gas helium. Physical Review A, 2016, 93, .	2.5	7
13	2D surface optical lattice formed by plasmon polaritons with application to nanometer-scale molecular deposition. Scientific Reports, 2017, 7, 7788.	3.3	7
14	Destabilization of dark states in MgF molecules. Physical Review A, 2021, 103, .	2.5	7
15	Intensity-gradient induced Sisyphus cooling of a single atom in a localized hollow-beam trap. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 195001.	1.5	6
16	Optically stimulated slowing of polar heavy-atom molecules with a constant beat phase. Physical Review A, 2018, 97, .	2.5	6
17	Cold collision and the determination of the X2Σ1/2( = 1, â€N = 1) → A2Î1/2(′ = 0 buffer-gas-cooled MgF molecules. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 236, 106583.	, J′ = 2 . 3	-1/2) frequenc 6
18	Chip-scale molecule trapping by a blue-detuned metasurface hollow beam. Journal of Optics (United) Tj ETQq	000rgBT/C	Dverlock 10 Tf

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19	Optical focusing based on the planar metasurface reflector with application to trapping cold molecules. Journal of the Optical Society of America B: Optical Physics, 2018, 35, 3049.	2.1	6
20	Rotational analysis and hyperfine structures of A2Î1/2Â→ÂX2Σ1/2 transition in 25,26MgF isotope molecules. Journal of Quantitative Spectroscopy and Radiative Transfer, 2022, 278, 108015.	2.3	4
21	Simulation of EOM-based frequency-chirped laser slowing of MgF radicals. Frontiers of Physics, 2022, 17, 1.	5.0	4
22	Generation of a localized hollow laser beam using crossed nonlinear optical crystals. Optics Communications, 2018, 419, 97-102.	2.1	3
23	Radiative force from optical cycling on magnesium monofluoride. Physical Review A, 2022, 105, .	2.5	3
24	Quadrupolelike electrostatic guiding for cold polar molecules. Journal of Chemical Physics, 2008, 128, 094301.	3.0	2
25	Note: Sensitive fluorescence detection through minimizing the scattering light by anti-reflective nanostructured materials. Review of Scientific Instruments, 2018, 89, 046103.	1.3	2
26	Generation of elliptical and circular vector hollow beams with different polarizations by a Mach–Zehnder-type optical path. Journal of Optics (United Kingdom), 2018, 20, 015605.	2.2	1
27	All-optical long-distance guide for cold molecules using a parallel hollow beam generated by a nonlinear ZnSe crystal. Optics Communications, 2019, 430, 318-322.	2.1	1