

# Lijun Yuan

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/317227/publications.pdf>

Version: 2024-02-01

38  
papers

499  
citations

623734

14  
h-index

713466

21  
g-index

38  
all docs

38  
docs citations

38  
times ranked

202  
citing authors

#	ARTICLE	IF	CITATIONS
1	Strong resonances on periodic arrays of cylinders and optical bistability with weak incident waves. <i>Physical Review A</i> , 2017, 95, .	2.5	56
2	Bound states in the continuum on periodic structures: perturbation theory and robustness. <i>Optics Letters</i> , 2017, 42, 4490.	3.3	41
3	Bound states in the continuum on periodic structures surrounded by strong resonances. <i>Physical Review A</i> , 2018, 97, .	2.5	41
4	Propagating Bloch modes above the lightline on a periodic array of cylinders. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2017, 50, 05LT01.	1.5	37
5	Fourier-matching pseudospectral modal method for diffraction gratings. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2011, 28, 613.	1.5	30
6	A Recursive-Doubling Dirichlet-to-Neumann-Map Method for Periodic Waveguides. <i>Journal of Lightwave Technology</i> , 2007, 25, 3649-3656.	4.6	21
7	Diffraction of plane waves by a periodic array of nonlinear circular cylinders. <i>Physical Review A</i> , 2016, 94, .	2.5	20
8	An Efficient Bidirectional Propagation Method Based on Dirichlet-to-Neumann Maps. <i>IEEE Photonics Technology Letters</i> , 2006, 18, 1967-1969.	2.5	19
9	Eulerian Geometrical Optics and Fast Huygens Sweeping Methods for Three-Dimensional Time-Harmonic High-Frequency Maxwell's Equations in Inhomogeneous Media. <i>Multiscale Modeling and Simulation</i> , 2016, 14, 595-636.	1.6	16
10	Unidirectional reflectionless transmission for two-dimensional $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mi mathvariant="script"} \rangle \text{PT} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -symmetric periodic structures. <i>Physical Review A</i> , 2019, 100, .	2.5	16
11	Perturbation theories for symmetry-protected bound states in the continuum on two-dimensional periodic structures. <i>Physical Review A</i> , 2020, 101, .	2.5	16
12	Excitation of Bound States in the Continuum via Second Harmonic Generations. <i>SIAM Journal on Applied Mathematics</i> , 2020, 80, 864-880.	1.8	15
13	Bound states with complex frequencies near the continuum on lossy periodic structures. <i>Physical Review A</i> , 2020, 101, .	2.5	15
14	Efficient numerical method for analyzing optical bistability in photonic crystal microcavities. <i>Optics Express</i> , 2013, 21, 11952.	3.4	14
15	Babich's Expansion and High-Order Eulerian Asymptotics for Point-Source Helmholtz Equations. <i>Journal of Scientific Computing</i> , 2016, 67, 883-908.	2.3	14
16	Parametric dependence of bound states in the continuum on periodic structures. <i>Physical Review A</i> , 2020, 102, .	2.5	14
17	Resonant field enhancement near bound states in the continuum on periodic structures. <i>Physical Review A</i> , 2020, 101, .	2.5	12
18	Analyzing second harmonic generation from arrays of cylinders using Dirichlet-to-Neumann maps. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2009, 26, 587.	2.1	11

#	ARTICLE	IF	CITATIONS
19	Dirichlet-to-Neumann map method for analyzing hole arrays in a slab. Journal of the Optical Society of America B: Optical Physics, 2010, 27, 2568.	2.1	11
20	Conditional robustness of propagating bound states in the continuum in structures with two-dimensional periodicity. Physical Review A, 2021, 103, .	2.5	11
21	Nonlinear standing waves on a periodic array of circular cylinders. Optics Express, 2015, 23, 20636.	3.4	10
22	Robust iterative method for nonlinear Helmholtz equation. Journal of Computational Physics, 2017, 343, 1-9.	3.8	9
23	Bilateral symmetry breaking in nonlinear circular cylinders. Optics Express, 2014, 22, 30128.	3.4	8
24	Efficient numerical method for analyzing photonic crystal slab waveguides. Journal of the Optical Society of America B: Optical Physics, 2011, 28, 2265.	2.1	7
25	Parametric dependence of bound states in the continuum in periodic structures: Vectorial cases. Physical Review A, 2021, 104, .	2.5	7
26	On the robustness of bound states in the continuum in waveguides with lateral leakage channels. Optics Express, 2021, 29, 16695.	3.4	6
27	Dirichlet-to-Neumann map method for second-harmonic generation in piecewise uniform waveguides. Journal of the Optical Society of America B: Optical Physics, 2007, 24, 2287.	2.1	5
28	Resonant field enhancement in lossy periodic structures supporting complex bound states in the continuum. Journal of the Optical Society of America B: Optical Physics, 2022, 39, 611.	2.1	5
29	Approximating transmission and reflection spectra near isolated nondegenerate resonances. Physical Review A, 2022, 105, .	2.5	4
30	Real transmission and reflection zeros of periodic structures with a bound state in the continuum. Physical Review A, 2022, 106, .	2.5	3
31	Fourier-matching pseudospectral modal method for diffraction gratings: reply. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2012, 29, 1846.	1.5	2
32	Standing waves on a periodic array of circular cylinders with saturable nonlinear media. Optical and Quantum Electronics, 2016, 48, 1.	3.3	2
33	Mode Reduction for Efficient Modeling of Photonic Crystal Slab Structures. Journal of Lightwave Technology, 2014, 32, 2340-2344.	4.6	1
34	An Efficient Numerical Method for Optical Waveguides With Holes. Journal of Lightwave Technology, 2009, 27, 2557-2562.	4.6	0
35	AN EFFICIENT MODE REDUCTION TECHNIQUE FOR MODELING OF WAVEGUIDE GRATINGS. Progress in Electromagnetics Research M, 2014, 40, 1-8.	0.9	0
36	Rigorous numerical study of symmetry breaking in a pair of nonlinear cylinders. , 2015, , .		0

#	ARTICLE	IF	CITATIONS
37	Analyzing Second Harmonic Generation in Photonic Crystals by Dirichlet-to-Neumann Maps. , 2008, , .		0
38	Efficient Numerical Method for Analyzing Photonic Crystal Slab Waveguides Based on Dirichlet-to-Neumann Maps. , 2010, , .		0