

# Jianxin Zhu

## List of Publications by Year in descending order

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18  
papers

128  
citations

1307594

7  
h-index

1199594

12  
g-index

18  
all docs

18  
docs citations

18  
times ranked

56  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Cross Orthogonality Between Eigenfunctions and Conjugate Eigenfunctions of a Class of Modified Helmholtz Operator for Pekeris Waveguide. Journal of Theoretical and Computational Acoustics, 2019, 27, 1850048. | 1.1 | 2         |
| 2  | Higher Order Asymptotic Approximations of Eigenmodes for a Circular Waveguide Terminated by a Perfectly Matched Layer. Journal of Lightwave Technology, 2017, 35, 1980-1987.                                    | 4.6 | 0         |
| 3  | Modelling and Numerical Simulations of Heat Distribution for LED Heat Sink. Discrete Dynamics in Nature and Society, 2016, 2016, 1-8.   | 0.9 | 5         |
| 4  | A New Approach of Eigenmodes for Varying Refractive-Index Profile™s Waveguides. IEEE Transactions on Microwave Theory and Techniques, 2016, 64, 3131-3138.  | 4.6 | 0         |
| 5  | Exact Analytical Equations for Eigenmodes in Varying Refractive-Index Profile™s Waveguides Terminated by Perfectly Matched Layers. Journal of Lightwave Technology, 2015, 33, 324-332.                          | 4.6 | 3         |
| 6  | Efficient approximations of dispersion relations in optical waveguides with varying refractive-index profiles. Optics Express, 2015, 23, 11952.   | 3.4 | 2         |
| 7  | Asymptotic solutions of eigenmodes in slab waveguides terminated by perfectly matched layers. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2013, 30, 2090.                | 1.5 | 13        |
| 8  | Nonlinear equation of the modes in circular slab waveguides and its application. Applied Optics, 2013, 52, 8013.  | 1.8 | 4         |
| 9  | Dispersion relations of the modes for open nonhomogeneous waveguides terminated by perfectly matched layers. Journal of the Optical Society of America B: Optical Physics, 2012, 29, 2524.                      | 2.1 | 5         |
| 10 | Dispersion Relation of Leaky Modes in Nonhomogeneous Waveguides and Its Applications. Journal of Lightwave Technology, 2011, 29, 3230-3236.   | 4.6 | 10        |
| 11 | Validity of Modal Expansion Method for the optical waveguide with PML. , 2010, , .  |     | 0         |
| 12 | A Unified Mode Solver for Optical Waveguides Based on Mapped Barycentric Rational Chebyshev Differentiation Matrix. Journal of Lightwave Technology, 2010, 28, 1802-1810.                                       | 4.6 | 5         |
| 13 | Leaky modes of optical waveguides with varied refractive index for microchip optical interconnect applications – Asymptotic solutions. Microelectronics Reliability, 2008, 48, 555-562.                         | 1.7 | 13        |
| 14 | Leaky modes of slab waveguides-asymptotic solutions. Journal of Lightwave Technology, 2006, 24, 1619-1623.  | 4.6 | 27        |
| 15 | Propagating modes in optical waveguides terminated by perfectly matched layers. IEEE Photonics Technology Letters, 2005, 17, 2601-2603.   | 2.5 | 14        |
| 16 | VALIDITY OF ONE-WAY MODELS IN THE WEAK RANGE DEPENDENCE LIMIT. Journal of Computational Acoustics, 2004, 12, 55-66.   | 1.0 | 10        |
| 17 | A LOCAL ORTHOGONAL TRANSFORM FOR ACOUSTIC WAVEGUIDES WITH AN INTERNAL INTERFACE. Journal of Computational Acoustics, 2004, 12, 37-53.   | 1.0 | 15        |
| 18 | A new theoretical treatment for the computation of optical-absorption coefficient in inhomogeneous semiconductor material. , 0, , .   |     | 0         |