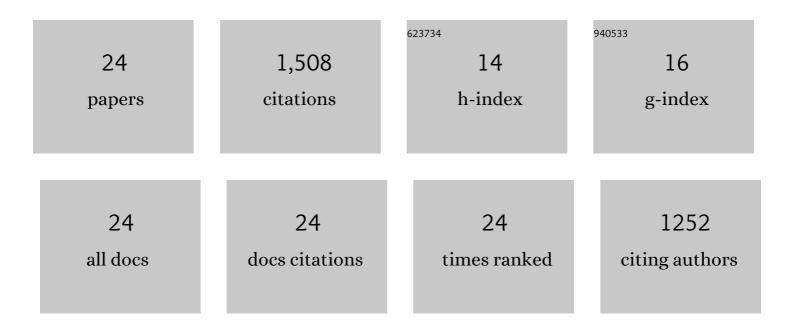
Adam S Backer

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Co-Design of Free-Space Metasurface Optical Neuromorphic Classifiers for High Performance. ACS Photonics, 2021, 8, 2103-2111. | 6.6 | 7 |
| 2 | Elucidating the Role of Topological Constraint on the Structure of Overstretched DNA Using Fluorescence Polarization Microscopy. Journal of Physical Chemistry B, 2021, 125, 8351-8361. | 2.6 | 4 |
| 3 | Achromatic Varifocal Metalens for the Visible Spectrum. ACS Photonics, 2019, 6, 2432-2440. | 6.6 | 55 |
| 4 | Single-molecule polarization microscopy of DNA intercalators sheds light on the structure of S-DNA. Science Advances, 2019, 5, eaav1083. | 10.3 | 42 |
| 5 | Computational inverse design for cascaded systems of metasurface optics. Optics Express, 2019, 27, 30308. | 3.4 | 62 |
| 6 | Multicolour localization microscopy by point-spread-function engineering. Nature Photonics, 2016, 10, 590-594. | 31.4 | 128 |
| 7 | Enhanced DNA imaging using super-resolution microscopy and simultaneous single-molecule orientation measurements. Optica, 2016, 3, 659. | 9.3 | 103 |
| 8 | Precise Three-Dimensional Scan-Free Multiple-Particle Tracking over Large Axial Ranges with Tetrapod Point Spread Functions. Nano Letters, 2015, 15, 4194-4199. | 9.1 | 210 |
| 9 | Determining the rotational mobility of a single molecule from a single image: a numerical study. Optics Express, 2015, 23, 4255. | 3.4 | 41 |
| 10 | Optimal Point Spread Function for 3D High-Precision Imaging. , 2015, , . | | 0 |
| 11 | Determining the Rotational Mobility of a Single Molecule from a Single Image: A Numerical Study. , 2015, , . | | 0 |
| 12 | Maximally Informative Point Spread Functions for 3D Super-Resolution Imaging. , 2015, , . | | 0 |
| 13 | A bisected pupil for studying single-molecule orientational dynamics and its application to three-dimensional super-resolution microscopy. Applied Physics Letters, 2014, 104, 193701. | 3.3 | 68 |
| 14 | The Role of Molecular Dipole Orientation in Singleâ€Molecule Fluorescence Microscopy and Implications for Superâ€Resolution Imaging. ChemPhysChem, 2014, 15, 587-599. | 2.1 | 121 |
| 15 | Optimal Point Spread Function Design for 3D Imaging. Physical Review Letters, 2014, 113, 133902. | 7.8 | 277 |
| 16 | Extending Single-Molecule Microscopy Using Optical Fourier Processing. Journal of Physical Chemistry B, 2014, 118, 8313-8329. | 2.6 | 129 |
| 17 | Single-molecule orientation measurements with a quadrated pupil. Proceedings of SPIE, 2014, , . | 0.8 | 0 |
| 18 | The double-helix point spread function enables precise and accurate measurement of 3D single-molecule localization and orientation. Proceedings of SPIE, 2013, 8590, 85900. | 0.8 | 25 |

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| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Single-molecule orientation measurements with a quadrated pupil. Optics Letters, 2013, 38, 1521. | 3.3 | 60 |
| 20 | The Double-Helix Microscope Enables Precise and Accurate Measurement of 3D Single-Molecule Orientation and Localization Beyond the Diffraction Limit. , 2013, , . | | 0 |
| 21 | Measuring the 3D Position and Orientation of Single Molecules Simultaneously and Accurately with the Double Helix Microscope. , 2013, , . | | Ο |
| 22 | Optical Methods for Measuring Single-Molecule Orientation and Position: Implications for Super-Resolution Microscopy. , 2013, , . | | 0 |
| 23 | Single-Molecule Orientation Measurements with a Quadrated Pupil. , 2013, , . | | Ο |
| 24 | Simultaneous, accurate measurement of the 3D position and orientation of single molecules. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 19087-19092. | 7.1 | 176 |